

UNIVERSITY QUESTION PAPERS 1931

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UNIVERSITY QUESTION PAPERS

Matriculation Examination. 1931

ENGLISH

-First Paper.—Part (A)

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Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English :--

(a) ছুটি ভাই ৰোন একদিন অপরাক্তে রান্তায় থেলা করিতেছিল, ²⁰ এমন সময় কিছু দূরে ভাহার। অনেক লোকের চীৎকার ওনিতে পাইন। চাহিয়া দেখিল, একটা পাগলা কুকুর তাহালের দিকে ছুটিরা আসিতেছে এবং বছলোক লাঠি লইয়া কুকুরের পিছনে দৌড়াইতেছে। বালক বুঝিতে পারিল, অবিলম্বে কুকুর ভাহাদিগকে কামড়াইবে। সে ওনিয়াছিল, পাগলা কুকুরে কামড়াইলে প্রাণের আশা অরই থাকে। কিন্তু এই বিপদ্কালে সে হতবৃদ্ধি হইরা পড়িল না, তাড়াতাড়ি গায়ের জামাটি খুলিয়া তাহার বাম হত্তে জড়াইল এবং ভল্লীকে ভান হাতে ধরিয়া রাখিল। ছোট বোন্টি ভবে কাদিতে লাগিল। কুকুর তীরের মত বেগে ছুটিরা নিকটে আদিবামাত ৰালক নিজের বাম হাতথানি তাহার দিকে বাড়াইয়া দিল। ইতিমধ্যে লোকজন সেখানে পৌছিয়া কুকুরটাকে মারিয়া ফেলিল।

সকলে বিশ্বিত হইয়া বালককে জিজ্ঞাসা করিতে লাগিল, "ভূমি পালাও নাই কেন ?" বালক বলিল, "হাঁ, আমি দৌড়াইয়া পালাইতে পারিতাম বটে, কিন্তু আমার ভোট বোন্টি ত আমার সমান ছুটিতে পারিত না, কুকুর নিশ্চয়ই তাহাকে কামড়াইত।"

(b) হাইদার আলির পিডা মহীশুরে একজন সৈনিক ছিলেন। 20 হাইদারের বয়স বথন ৪ বংসর তথন তাঁহার পিডার মৃত্যু হয়। হাইদার বড় হইয়া এক সৈঞ্চলে প্রবেশ করিলেন। এই যুদ্ধে তাঁহার সাহস ও যুদ্ধ-কৌশল দেখিয়া মহীশুরের প্রধান মন্ত্রী তাঁহাকে এক কুদ্র সেনাদলের সেনাপতি করিয়া দিলেন।

হাইদার টাকা দিয়া সৈন্ত বাড়াইতে লাগিলেন, ফরাসী শিক্ষক রাখিয়া সৈন্তদিগকে শিক্ষা দিতে লাগিলেন, এবং কামান, গুলিগোলা, প্রস্তুত করিতে লাগিলেন। এইরপে তিনি মহীশুরে ক্ষমতাশালী হইয়া উঠিলেন। তথন মহীশুরের রাজা তাঁহাকে প্রধান সেনাপতি-পদে নিযুক্ত করিলেন। মহীশুর হইতে মারাঠাাদগকে তাড়াইয়া দিয়া হাইদার রাজ্যের মধ্যে সর্কেসর্কা হইয়া উঠিলেন। এই স্ক্রেমাগে হাইদার রাজাকে বন্দী করিয়া নিজে মহীশুরের স্ক্রভান চইলেন।

কিছু কাল পরে হাইদার নিজামের সহিত মিলিত হইয়া ইংরেজাদগকে আক্রমণ করিলেন। ইংরেজেরা তথন বাধ্য হইয়া গুছার সহিত সন্ধি করিলেন। বিশদ্কাশে উভয়ে উভয়ের সাহাধ্য করিবেন এইরূপ স্থির হইল।

(ে) কুসঙ্গ সর্বাধা পরিভাজা। কুসঙ্গ বলিতে কেবল কুচরিত্র 20 ব্যক্তিগণের সহিত মিলন ও ঝালাপ-বাবহার বুঝার না। কুত্রন্থ অধ্যয়ন, কুচিত্র দর্শন, কুবাকা কি কুসঙ্গাত প্রবণ, সমন্তই কুসঙ্গের মধ্যে পরিঙ্গণিত। যাহা দর্শন করিলে, যাহা প্রবণ করিলে, যাহা উচ্চারণ করিলে অথবা চিন্তা করিলে মনে কুভাবের উদর হয়, তাহা সমস্তই বর্জনীয়।

যদি স্থান্থ পড়িলে মন উন্নত হয়, তবে কুগ্রন্থ পড়িলে কেন অবনত হইবে না ? যদি স্থানিত-দর্শনে মনে পবিত্র ভাবের উদয় হয়, তবে কুচিত্র-দর্শনে কেন অপবিত্র ভাবের উদ্রেক হইবে না ? যদি স্থান্দর্শত কি স্থাক্য-শ্রবণে কান কংগিতভাবে চিত্ত মলিন হইবে না ?

কুসঙ্গ বেমন সর্মনাশক এমন স্বায় কিছু নাই। বে সকল ব্যক্তির •
অধঃপত্তন হইয়াছে, জিজাসা কর, বোধ হয় প্রায় তাহাদের সকলের মুখেই
তানিতে পাইবে, কুসংস্ক ই অধঃপত্তনের কারণ। মন্দপথে চালাইবার
ব্যক্তির স্বস্ত নাই, স্থপথের সহযাত্রী স্বতি স্মর।

TRANSLATION FROM ASSAMESE INTO ENGLISH

Paper-Setters— { SRIJUT SURYYAKUMAR BHUIYAN, M.A. AMBIKANATH BORAH, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following passages:-

- (a) শহ্বদেৱৰ জন্ম ১৪৪৮ খন্তাব্দত্ত তেওঁ শিৰোমণি ভূঞা 20 কুমুমবৰৰ পুত্ৰ। নগাৱৰ বৰদোৱা এই মহাপুক্ষৰ জন্মস্থান। শহ্বদেৱৰ জন্মৰ অলপদিনৰ পাচতেই তেওঁৰ পিতৃ মাতৃৰ মৃত্যু হয়। শহ্বদেৱক তেওঁৰ বৃঢ়ীমাক খেড়স্ভীয়ে পতিপাল করি ডাঙৰ কৰে। কথিত আছে তেওঁ সৰুকালৰে পৰা বৰ বলী আৰু ক্ষমতাশালী আছিল। তেওঁৰ কিছু বয়স হোৱাত এদিন দাঁড় এটাক শিঙত ধৰি খালত পেলাই দিছিল। আৰু এদিন ভাদ মহা ভৰা ব্ৰহ্মপুত্ৰ সাতৃৰি পাৰ হৈছিল। শহ্বদেৱৰ শাৰীৰিক শক্তিভকৈ মানসিক ক্ষমতা আৰু প্ৰথৰ আছিল। কথিত আছে যে এনাৰ বছৰ বয়সলৈ তেওঁ লিখা পঢ়াত হাত দিয়া নাছিল তাৰ পাচত মহেন্দ্ৰ কন্দলী নামৱ ব্ৰাহ্মন পণ্ডিত এজনৰ পঢ়াশালীত পঢ়ে, অৰু অতি অলপ দিনৰ ভিতৰতে সকলো শস্ত্ৰত পাৰদৰ্শী হয়। শহ্বদেৱে কুৰি বছৰ মান বয়সত বিয়া কৰায়। এটি তেওঁৰ প্ৰথম বিবাহ।
- (b) হগলীত আগামোটাহেব নামে এজন বব ধনী মামুহ আছিল। 30 তেওঁ পাবশুৰ পৰা আহি নিজৰ ধন আৰু পাণ্ডিতাৰ দ্বাৰা সনাট আওবংজবৰ প্ৰিন্ন পাত্ৰ হৈ উঠে। সনাটে বঙ্গদেশৰ ঘশোহৰ জিলাত তেওঁক ভালেমান জাগীৰ বা ভূসম্পত্তি দান কৰে। মেই সম্পত্তিৰ পৰা আগামোটাহেৰ অলপদিনৰ ভিতৰতে এজন বব কৌটিপতি ধনী হৈ উঠিল। মুৰ্চিদ কুলি থা নবাবে হগলিত এটা মচজিদ বা ইমাঘাৰ নিৰ্মাণ কৰিছিল, সেইটো সময়ত ভালিগল। আগামোটাহেৰে তাক পুন্ব সংস্কাৰ কৰি তাক এটা স্থলৰ প্ৰাৰ্থনা স্থান কৰে। বছতদিন নিসন্তান হৈ থকাৰ পাচত বুঢ়া বয়সভ আগামোটাহেৰৰ এজন ছোৱালী হয়, তেওঁৰ নাম মহুজান। মহুজান সাত্ত বছৰ বয়সত আগামোটাহেৰৰ মৃত্যু হয়। সকলো সম্পত্তি মোটহেৰে জীয়েকৰ নামে উইল কৰি দিয়ে। গোটাহেৰৰ পত্নীয়ে স্থামীৰ মৃত্যুত হাজী ফইজুল্লাক বিয়া কৰায়। এই বিবাহৰ মাথোন এটি পুত্ৰ সন্তান হয়, তেওঁৰ নাম হাজি মহম্মদ মহিচন।
- (c) খৃষ্টিয় প্ৰথম শতিকাত কামৰূপত এজনা পৰাক্ৰমী ৰন্ধাই ২০ হাজৰ কৰিছিল। তেওঁৰ কন্তাৰ নাম মাজিল অমৃতপ্ৰভা। অমৃতপ্ৰভাৰ গুণ আৰু সৌন্দৰ্য্যৰ কথা ভাৰতৰ সকলো ঠাইতে জনাজাত হৈছিল।

তেওঁৰ বিবাহযোগ্য বয়দ হলত বজাই সমুদ্ধৰৰ ব্যৱস্থা কৰে। সেই সমুদ্ধৰ সভালৈ সকলো ঠাইৰ পৰা নৃপতি আৰু ৰাজকোৱৰ দকল আহিছিল। তাৰ ভিতৰত পোপাদিতাৰ পুতেক কাশ্মীর যুবৰাজ মেঘবাহন এজন। এওঁৰ গাত পৰাক্ৰমা ৰজাহোৱাৰ লক্ষণ দেখা পাই অমৃতপ্ৰভাই তেওঁৰ তিভিত মালা কৰ্পন কৰে। মেঘবাহন কাশ্মীৰৰ ৰজা হোৱা কালত অমৃতপ্ৰভা তেওঁৰ বৰ মৰমৰ ৰজমহিষা হয়গৈ। কাশ্মীৰত বৌদ্ধ শিক্ষক নাছিল। সেই দেখি অমৃতপ্ৰভাই কামৰূপৰ পৰা স্তৌন্প নামে এজন বিখ্যাত বৌদ্ধ পণ্ডিতক কাশ্মীৰলৈ লৈয়ে। বৌদ্ধ সন্তাসসকলৰ কাৰণে অমৃতপ্ৰভাই এটি আশ্ৰম বা বিহাৰ সাজি দিয়ে। সেই আশ্ৰম আজিলৈকে "অমৃতপ্ৰভাই এটি আশ্ৰম বা বিহাৰ সাজি দিয়ে। সেই আশ্ৰম আজিলৈকে "অমৃতভ্ৰন" বুলি প্ৰাসদ্ধ।

TRANSLATION FROM MANIPURI INTO ENGLISH

Paper-Setters— { Mr. Sanjiban Nadia Singh. ... Rajkumar Atompisak Singh.

l'andidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English:-

- (a) ভৌইশুৰুহং সেকনর শাহনা অহুম ওইবা অকীবগী মশক 20 ওইবা রা অসি মুণ্ডাইভবগা লোইননা লোধিদে। অহুম ওইনমক গায়াপ্রদিননা মমা পোক্তবাগী ভৌবা ওমা পাঞ্চল খংলহনা অকীবগা লোইননা সোনারগা রোমদা চেনপ্রে; অমস্থং লাম্মী খোমহনা ইফোং ফোংনা মেশাগী যেরবা ওইনা লেপাথু। মচাগী অস্থম ওইবা ভৌবিমল খংদবা লমচংশিদা অশাওবনা খুহুম চলুনা সেকেন্দর শাহনা মচাগী যেরবা ওইনা লালগী পোরাং ভৌরে। মিচং অনিগ্র লাম্মী গোরাল পাড়াগী মনাক্তা ধেংনরে।
- (४) ইশিং থকে হাইছনা মানা পাত্র অহু মচিন্দা থাংলংককপা ৠ
 মতমদা উবা ফংলে মাছদি খুংলাইনা শোক্লবা সিপাই অমনা পাত্র অদামদা
 রেংছনা লৈরমই। মাগী আবাবা মিংগ্লেং অছ্ উরছনা মানা ভলেং ভলেংনা
 খংলে মাছদি মহাকত্ব খৌরাংবনা যায়া বারি। মাসি উরছনা মানা অমুক
 ইশিং থক্তে । সিপাই অছদা রেংছদা হাইরকই, "ঐ ঙোল্গী হেয়া
 নংঙোলা ইশিং যায়া কারগনি"। অসি হাইরছনা মানা খুছক অছ্লা
 ইশিং অছ্ মাঙোল্দা থকউ হাইছনা পিরে। মাছগী মতুং থরা লৈরগা মহাক
 পিথে।

(c) নোংমগী মুমিন্তা হরিগী মণানা হরি অমন্তং মাগী মচিন মনাও 20 শিংদা হাই; "হয়েংদি মফম অমদা মেলা ভৌগনি, নথোইবু মফম অছদা ঐনা পুছনা চৎকিন। মফম অছদা য়ায়া হরাও কুলৈ ভৌগনি ঐথোইনা চজুনা য়েংগনি। মংথিল পুং অনি ভাবগী সাড়িদা ঐথোই চৎকিন। নথোই পুয়মক থৌরাং ভৌতুনা লৈরমউ।" বা অসি ভারছনা হরিদি য়ায়া হরাওরে, হাইরকই "ঐদি মতমচাদা খুংনফমদা চত্ত না খুংলুগনি।" মতুং মুমিৎকী অয়ুক্রা চাবা থকপা লোইরবগী ভুংদা হরিদি অমুক উথিদ্রে, মহাক কদোমদা চথোকথে।

TRANSLATION FROM HINDI INTO ENGLISH.

Paper-Setters— { LALA SITARAM, B.A. MR. NALINIMOHAN SANYAL, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English :--

- (a) वह कौनसा सनुष्य है जिसने महाप्रतापी राजा महाराजा भीज का 20 नाम न सुना हो। उसकी महिमा और कौर्ति तो सार्र जगत में व्याप रही है। बड़े बड़े महिपाल उसका नाम सुनत हो कांप उठते थे और बड़े बड़े भूपति उसकी पाव पर अपना सिर नवाते। सेना उसकी समुद्र को तरगी का नसूना और ख्जाना उसका सोने चांदी और रबों की खान से दूना। उसकी दान ने राजा कर्ण को लंगों के जो से भुलाया और उसकी न्याय ने विक्रम की भी लजाया। कोई उसके राज भर में भूखा न मोता और न कोई उघाड़ा रहने पाता। जो सन्तृ मांगने आता उसे मोती चूर मिलता और जो गजी चाहता उसे सबसन दी जाती।
- (b) इस देश की चित्रय जाति चपनी वोरता के लिय बड़ा प्रसिष्ठ रहां 20 है। वोरता के साथ हां साथ देशप्रेस चौर खंदणाश्मिमान का चपूर्व सश्चेलन होते के कारण, चित्रयों का नाम भारत के इतिहास में चपूर्व गौरव को धराहर हो गया है। इस जाति के उत्थान में पुत्रयों चौर खियों का हाथ समान दप से ही रहा है। इस जाति में जहां एक से एक बढ़कर वीर पुत्रव चौर चतुर राजनीति इये हैं वहां चवानियों भी बड़ी बहादुर चौर नीतिकृष्णा होती रही हैं। उस ज्ञाने में चाज जैसा पर्द का दौर दौरा नहीं था। भाज कल की तरह सा बहिने घरों के बन्दीखान में सड़ाई महा जातो थीं। स्वच्छ वायु में खतंवता से घूमने के कारण जनका शरीर खख्य चौर सबल होता था।
- (c) टूत के सुँड से प्रथ्वीगत का चाना सुनने हो परमास की रानी 20 सकता का गना मुख गया वे चपने सन में सीचने सनों कि वासव में यह

समय बड़ा विकट है। यदि चन्द्रमुखी ताला व पर न जाविशी तो काजि लियों की कौन हंदी करेशा। वहां जाने से कहां उस दृष्ट ने सेरी वेटी का डोखा छिड़ दिया तब कौन उसकी रचा करेशा। जिनका सुक्त पूरी तरह अशे सा द्या, जो सेरी वेटी के बचाने की. सेरे धर्म की रचा करने की अपनी जान पर खेलने की हमेशा तैयार रहते है वे तो टीनों बीर यहां हैं ही नहीं, अब किस के पास जाऊं. किस अपनी दु: खकथा कह सुनाऊं।

गर्भी इस तरह विचार करती हुई शोकमागर में बार बार गोते खा रही थी उभी समय अभवसिंह और रणजीतसिंह रानी के पास आ गर्थ।

TRANSLATION FROM MAITHILI INTO ENGLISH

Paper-Setters— { Mr. Gangapati Singh, B.A. Pandit Babua Misra.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English:-

- ाता संसारस अवस्थात परिवर्षन होएव निश्चित और खाभाविक पछि। 20 एकहि प्रवस्था पर पाइ धरिने को रहन पछि ने रिह सकैत पछि। किङ्ए दिन पहिने हम जाहि व्यक्तिक दशा प्रत्यन उद्गत भी प्रशंसनीय देखने की वा सुनने की भीकर दशा पाइ एहन शोधनीय भय सकैत कैंक जे भोकरा देखि ककरा हृद्यस द्याभ सञ्चार नहि होएतेक? तहिना किङ् दिन पूर्व जकर प्रवस्था प्रत्यन शोचनीय देखवास प्रदेत कन से सम्प्रति प्रपन उत्साह भी परिश्वमक प्रभावे प्रत्यन प्रभान शोधनीय देखवास भारे प्रवस्था स्थान प्रभाना हों भी संसारस प्रवस्था स्थान प्रभाना हों से संसारस प्रवस्था स्थान हों हम स्थान प्रभाना हों से संसारस प्रवस्था सिन देखन जाई है।
- (b) बाल्यावस्थामे कार्यक भार पडलाई महाराज रखजीतसिंहके पढ़वाक 20 समय निह भेटलेक्ट ते इत्यांत शिवाजी जका रही निरचर इलाइ। किन्तु ट्रिट्टी तथा विवेकी खाव इलाइ। मर्थं भण बुडिमान् एइन इलाइ जि पैच २ विश्व सभा हिनक बुडिकी शल देखि चिकत भण जाथि। एक दिन उक्त महाराज भारतवर्षक मानवित—नकसा—भ किक् चंश्र लाल देखि पुक्लिथिह जि कोनी २ वाम लाल किएक कैक? की मभामद कहलिथिह जिलाल चंश्र चहरीजक प्रधीन कैन्छ। ताइ पर महाराज बजलाह जि चाव थोड़के दिनमे मन्पूर्य लाल भए जाएत।
- (८) भाइ काल्ड्स ममयमध्य समझ मंगारने प्राचिमात लीकिक खतन्त्रताक 20 हितु जाग्रत भेल भाइ। सर्वाइक इच्छा छैक जे इसर ब्लामात खतन्त्र भए जाय। इसरालोकिन सभ व्यावहारिक बल्त भएनडि देशमध्य प्रस्तत क्या विदेशी वस्तुक वहिलार करा तथा भएन भी भएना देशक छन्नति करी। जखन सभ भएन

भो भानक भेद करवाने लागल भक्ति तखन एक विरि इमरालोक निक इदयने भाशा उत्पन्न भेल ने बहुत संभव थिक जे भाग मैथिलो लोक नि भपन भित प्राचीन मैथिलोक स्मरण क्य भोकर उन्नति करवाक प्रयव भवस्य करताह।

TRANSLATION FROM NEPALI INTO ENGLISH

Paper-Setters— { Rai Sahib Hariprasad Pradhan, M.A. Mr. Bodhbikram Adhikari, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following passages:-

- (a) धान को खेती विशेष गरी तराई मा तथा मस्म जग्गा मा, जहां 20 प्रमुर पानी पादन्क, अग्लीर हुन्क। अक अन्न को भन्दा धान की खेती गर्ने रीति वेग्ले हुन्क। यस का निमित्त गरे गरा पर्व को जग्गा चाहिन्क। यसा जग्गा लाई खेत भन्दकन्। पहाड का खेत र मधिन का खेत मा धेरे अन्तर हुन्क। पहाड़ मा सम्म ठाउं न इनार्ल खेत का गरा हक ग्रीटा माथी अर्की अर्की मार्थी अर्की बनाए का हुन्कन्। तर मधम का खेत का गरा हक खालि आर्ली ले मात्र क्ट्याए का हुन्कन्। पहाड का खेत का निमित्त शिर मा पानी का कुली न भई हुंटेन। पहाड़ मा जमरी धान की खेती लानंकन्, तस की मंचित्र बयान यहां गरिन्क ॥
- (b) महाराज जह बहाद्र को जम मन १८१० मा भए की हो। महाराज 20 जह बहाद्र का पिता को नाउँ काजी बालनरमिंह हो। उनी बहा धर्मात्मा तथा बहाद्र थिए। काजी बालनरमिंह का भाठ कीरा र दर्द कीरी थिए। धेरै सन्तान हुंदा र राजकाज का जुनक मा पटी काजी बालनरमिंह ले धेरै धन कमाउँन सकी का थिएनन्। यम कारण प्रतिष्ठित कुल मा जन्म भए की थियी ता पिन महाराज जह बहाद्र की बाल्य जीवन दरिद्रतापूर्ण थियी। बालक काल मा महाराज जह बहाद्र ले बिगेष गिना पिन पाएनन तर के बी ले जान पर्न रचीविद्या मा भने महाराज जह बहाद्र प्रयोग थिए भी नाना ग्रस्त हस मन्तता पूर्वक संचालन गर्ये॥
- (c) तिम्बती चित्रकार इक धार्मिक इन्कन्। तिनी इक वृष्टभगवान 20 की जन्म देखि लिएर सन्य सभा तथा वृष्टभगवान का धर्म प्रचार चादि कर्म, चित्र मा प्रकाश गर्कन्। तिनी इक चित्र मा प्रव गहिरो रंग भर्कन्। मूक्त भन्दा पनि चित्र मा कर्मन्। मूक्त भन्दा पनि चित्र मा कर्मन्। क्रिक्त मा वर्धन गर्कन्। क्रिपाल का रीइक पनि तिनी इक रासरि भर्कन्। तिनी इक घर जन्मी क्रिपाल का रीइक पनि तिनी इक यसा चित्र लाई बाक्रका भन्दान्। यसा बाक्रका

खाई बुिडिए इर बड़ी भिक्त गरी, खच्छ स्थान मा राख्यकन् भी दिनहीं यसको यूजा गर्कन्। बुडिधर्मावलम्बी इरु दिनहीं गुम्बा मा गई यसा चित्र तथा सूर्त्तं इरु को दर्शन् गर्कन, ठोग गर्कन्, पूजा गर्कन्, भी भाफू ले गरे को दिन भरि को पापकर्म तहां गई स्वीकार गर्कन् भी चमा माग्छन्॥

TRANSLATION FROM MARATHI INTO ENGLISH

Paper-Setters— { Prof. D. R. Bhandarkar, M.A., Ph.D. Mahamahopadhyay Pandit Sitaram Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages:-

- (a) श्रशा स्थितीत कांडी दिवस गैल्यावर तो कळप एका वाघाचा नर्जर पडला, व त्यानी त्याकडे निरखन पाडिली; तो त्याला श्रास्य वाटली. श्रापल्याच जातीचा एक भयंकर वाघ त्या कळपात श्रेळ्या मेंच्या प्रमाणे श्रोरङत व पाला खात श्रमलेखा पाइन तो थक भाला. इकडे वाघाची चाइल लागतांच श्रेळ्या मेंच्या घावरत्या व पळी लागत्या. त्या पळत श्रमलेख्या पाइन त्यांच्या मंदग्रीचा तो वाघडी विवे करीत कींग्रें तरी लपण्याकरितां जागा शोर्ध लागला. त्या जंगली वाघानी हा प्रकार पाइतांच इतर कोषाही श्रेळी मेंग्री कडे न पाइतां एकदम त्या पाल्याक वाघावरच चाल केली श्राणि त्याला पकड़न तो नेक लागला. विचारा पाल्याक वाघावरच चाल केली श्राणि त्याला पकड़न तो नेक लागला. विचारा पाल्याक वाघावरच चाल केली घावरन श्रीरहं लागला व त्याचे पंजातून सुटग्या करितां घडपड कर लागला. जंगली वाघानी त्याला श्रीहोत एका सरीवराच्या किनाच्यावर श्राणिली श्राण श्रापत्या गर्जनेनी त्यास धमकावृत झटली, पहा पाण्यात पहा तकी व मार्कत तोड सारखेंच श्राडी. तकतीत व मार्कत पहले गर्डी.
- b) एकटां टक्क भवधूत एका पाण्यक प्रदेशांतन जात भसता एका बच्चाच 20 मोउया तलावात काहा कोळी मासे धकन तीरावर फेंकोत भसत्व्याचे त्यांनीं पाहिलें व त्याच वळे म फेकलंक्या मार्थात्न एक बराच मीठा मासा धारीने चींचींत धकन भाकाशांत नेताना त्याम ।दसलें तमेंच ती घार मासा घेऊन घोडी दूर जात भाई इतकात शेकडों कावळे शब्द करीत तिच्या मागे लागच्याचे त्यांच्या नजर्रम पडलें. घार जिकडे जाई तिकडे ने कावळे काव काव शब्द करीत तिचा पाठलांग करोत, धारीने पुष्ठळ रोतिने कावळ्यांम फसविय्याचा प्रयव केला, पच त्यात तिला यश्च भाले नाहीं. शेवटो इकडून तिकडे तिकडून इकडे धावता धावता तिला यश्च भाले नाहीं. शेवटो इकडून तिकडे तिकडून इकडे धावता धावता तिला व कळन चोंचोतील मासा खालीं जिननीवर पडला, तेव्हां कावळांनी पाउलांग करवें सोडून ते त्या माशांकडे वळले, व धावव्यांने श्वांत भालेखी चार कावळशंच्या वासात्त्र सुटल्याने धापा टाकीत नियंतपचे एका भण्डा वर वसली, दक्तानी हा सब प्रकार पाइन त्याच्या पास्न भशा वोध चेतला भण्डा वर वसली, दक्तानी हा सब प्रकार पाइन त्याच्या पास्न भशा वोध चेतला

(c) एकदां घर्जुनास गर्वे भाला को, इंश्वराची खरी भक्ति माभगावाच्न दिस्ख्यास नाहीं, श्रोक्षणास ने समकृत त्याचा गर्वे हरण करणार्च त्यांनी श्रीजिली, एकदिवर्णो दोचित्रण रानांत्न भटकत असता त्यांस एक विल्वेच तडिह बहेक दमम भेटला, तो सुके गवत खाऊन आपला निर्वाह करोत असे, य त्याच्या कर्मदम नागर्थ तलवार लटकलेलो असे, अर्जुनाने त्याचा हा विल्वेच प्रकार पाहन त्यांकल त्यास प्रश्न केताकों, कांही। आपण अहंसाबाद तर नाही? ज्या अथा दिख्ये गवत माहृन वाळके गवतावर निर्वाह करता त्या अर्थी आपण आहंसाबाद असा ममज होता व ने तसे असेल तर मीट्या ममाधानाचा गाँष्ट आहं, परंत् मग तलवाराचो जहरो नाहीं तो तुमच कर्मदला पाहन आर्थ वाटने, तरो याचे कारण काय ? त्या मनुष्यानी अर्जुना कडी पाहन गंभीरपण बीलुग्याम सुरवात केलो. तो हाणला मा चौचा मनुष्यांस श्रिचा करण्या कारतां ही तस्वार बाळियितो, अकस्यात त्यांचा भेट भालो तर विलंब होऊं नर्य हाणून तलवार मी नेहमीं आपले जवळ ठेवितीं.

TRANSLATION FROM ORIYA INTO ENGLISH.

Paper-Setters— { MR. MADHUSUDAN DAS, B.A. , PRIYARANJAN SEN, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Translate into English any two of the following passages:

(a) ସେ ସମୟରେ ଆରବମାନଙ୍କର ସାମାନିକ ଓ ନୈଶିକ ଅବନଣି 20 ଅଧିର୍ଯ୍ଦ୍ୱର ହୋର୍ଥା। ସେମାନେ ସର୍ବଦା ମୃହ୍ନିବାଦରେ ରହ ଥିଲେ । ଚାରିଆଡ଼େ ଅପାନ୍ତି, ପ୍ରହାରଣୀ, ପସ୍ୟୁକୃଷ୍ଟି ସୁରାଥାନ, ବ୍ୟରିଚାର ଓ ନରହୁତ୍ୟା ପ୍ରହୃତି ପାପରେ ଆରବଦେଶ ସର୍ବଦା କଳଙ୍କର ଦେଉ ଥିଲା । ଏପରି ସମୟରେ ସେହି ରଯ୍ବଙ୍କର ତେମରେ ସେହି ଦୁର୍ବୃଷ୍ଟ ଆରବମାନଙ୍କ ମଧ୍ୟରେ ମହାପୁରୁଷ ମହ୍ମୁଦ ଜାତ ହୋଇ ଥିଲେ । "ଇଣ୍ବର ଏକ ଏବଂ ଅନ୍ୱିତୀପ୍, କେବଳ ତାହାଙ୍କରି ପୂଜା କର" ଏହି କୋଖଣୀ ମହ୍ମୁଦ କଳ୍ତମମ୍ବୀର ଜାଦରେ ପ୍ରଚାର କଲେ । ସର୍ବାଦୌ ତାଙ୍କର ସହ୍ୟନ୍ନିଣୀ ଆଦେଳା ଦେବୀ ରସଲାମ୍ ଧର୍ମ ପ୍ରହଣ କଲେ । ପ୍ରତମ କ୍ରମେ ପ୍ରତମ ଅନେଳ ମୁରିଏ ନରନାରୀ ସେହି ଧର୍ମ୍ଭରେ ଦୀଣିତ ହେଲେ । ଏହା ଦେଖି ଅବିମ୍ବାସୀ ସହଳ ସୁଖାରିଳାଣୀ ପାଣ୍ଡମାନେ ଦ୍ରୋଧାନ୍ତ ହୋଇ ମହମ୍ବଦ ଓ ତାହାଙ୍କ ମିଷ୍ୟମାନଙ୍କ ଉପରେ ଅନ୍ୟାଚାର କରିବାକୁ ଲାଗିଲେ । ଏହି

ସମୟରେ ମହନ୍ଦ୍ରଦଙ୍କ ସହଧ୍ୟିକୁଁଣୀ ଓ କେଶ୍ୱ ତାତ ଉଷ୍ଟୟ ଅରଲୋକ ଗମନ କରନ୍ତେ ତାଙ୍କୁ ମହାଗୋକରେ ପଡ଼ିନାକୁ ହୋଇ ଥିଲା । ଏହି ପାରୁଣ ଅତ୍ୟାଚାର ଓ ମହାଗୋକ ସମୟରେ ସୁଦ୍ଧା ସେ କଣେ ଶିଷ୍ୟକୁ ଧର୍ନୁପ୍ରଚାର ଲାଗି ମଦିନା ନଗରୀକୁ ପ୍ରେରଣ କଲେ । ସୌରାଗ୍ୟ କ୍ରମେ ସେ ସ୍ଥାନର ପ୍ରଧାନପ୍ରଧାନ ଲୋକେ ତାଙ୍କ ଧର୍ନୁ ଗ୍ରହଣ କରି ତାଙ୍କୁ ସେଠାକୁ ଆଶିଦା ପାଇ ୭୦ ଜଣ ଶିଷ୍ୟଙ୍କୁ ମକ୍କା ନଗରକୁ ପଠାକ୍ଲେ ।

(b) ରାର୍ଚ୍ଚବର୍ଷର ଅନେକ ଯାଗାରେ ପ୍ରଚୂର ବର୍ଷା ହୃଏ ଏବଂ 20 ନଦୀର ନଳ କୂଳ ଲଙ୍କି ତାଲିଯ୍ବାଏ । ଗରିବ ଲୋକେ ଏବଂ ଅନ୍ୟାନ୍ୟ ଯେଉଁ ଲୋକମାନେ କାଧ୍ୟ ହୋଇ ଏହି ସବୁ ନିଲାରେ କାର୍ସ କରନ୍ତି ସେମାନଙ୍କର ଗୃହ ଦୂର୍ତ୍ରିମ ଉପାସ୍ତରେ ଉଚ କରାସ୍ୱାର ଥିବା ସ୍ଥାନମାନଙ୍କରେ ନିର୍ମିତ ହୁଏ ଏବଂ ବର୍ଷା ଦିନରେ ସେହି ଗୃହଗୁଡ଼ିକର ଚାରି ଯାଖଯାକ ଜଳ ଯେରି ଥାଏ । ଏପ୍ରକାର ସ୍ଥାନସବୁ ଅସ୍ୱାସ୍ଥ୍ୟକର ଏବଂ ବାସମୃହର ଉପଯୋଗୀ କୁଲ୍ଲେ । ଯେଉଁ ଉଚ୍ଚ ରୂମିରୁ ଜଳ ଶୀଙ୍କ୍ର କହି ଚାଲି ଯାଏ ତାହା ବାସମୃହପରେ ସର୍ବାପେଣା ଉତ୍ମ । କଲ୍ଲ, ବାଲ୍କା, ବାଲ୍କାମୟ ପ୍ରସ୍ତର ଏହି ସମନ୍ତ ଦ୍ୱାରୀ ଯେଉଁ ରୂମି ଗଠିର ରାହା ଏବଂ ପର୍କରମୟ ସ୍ଥାନ କାସଗ୍ଟ୍ରେ ଉପଯୁକ୍ତ । ପଦ୍ଦଯୁକ୍ତ ରୂମି ଉତ୍ତମ କୁହେ, କାରଣ ତାହାର ମଧ୍ୟ ଦେଇ କଳ ଅପ୍ରତିହ୍ନତ ରାବରେ ଗଡି ଯାଇ ପାରେ ନାହିଁ । ଏପ୍ରକାର ରୂମି ଉପରେ ଜଳ ଜମା ହୋଇ ରହି ରୂମିକୁ ସ**ନ୍ସରିଆ କରେ ।** ପଦ୍ଦମୟ୍ ରୂମି ଉପରେ କାଷ କରୁ ଥିବା ଲୋକେ କାର, କ୍ସର କକ୍ଷ୍ମକର ରୋଗ ଏକ ଅନ୍ୟାନ୍ୟ ଅନେକ ରୋଗରେ ପୀଡିତ ହୁଅନ୍ତି। ଯେଉଁ ରୂନି ଅପୁ ଏକଂ ସଚ୍ଛିତ୍ର ରାହା ମଧ୍ୟ ବାସ ପଣେ ଜିରାପଦ

କୂହେ । ତୂପ କିମ୍ବା ଅନ୍ୟାନ୍ୟ କଳାଶଯ୍ ମଧ୍ୟରେ ସ୍ୱଚିତ୍ର ମୃଷ୍ଟିକା ଦେଇ ପୂଷିଦ ପଦାର୍ଥ ପ୍ରବେଶ କରିବାର ରଯ୍ ସର୍ବଦା ଥାଏ । ଯେଉଁଠାରେ ଦଣଫୁ ଶ୍ରୁ ଅଳ୍ପ ଗରୀର କୂପ ଖୋଳିଲେ କଳମ୍ପିଳେ ସେ ସ୍ଥାନ ମଧ୍ୟ ବାସମୂହର ଉପଯୁକ୍ତ ନୁହେ ।

(୬) ପ୍ରଗାଡ଼ ଅନ୍ଧକାର, ରାଣି ଦୁଇ୍ପ୍ରହରରୁ ଗଡିଲାଖି । ହିପି ହିପି ²⁰ ବର୍ଷା ହେଉ ଅଛି, ଏମନ୍ତ ଖମ୍ପ୍ରରେ ଦୁଇନଣ କୃଷ୍ଣକାଣ୍ ଖଣ୍ଡାକ୍ତି ପୁରୁଷ ସହରର ପ୍ରାଳ୍ପଶ୍ୱିର ଏକ ସାହେବର ଗୃହର୍ଚିତରେ ପ୍ରବେଶ କଲେ । ଗୃହସ୍ୱାମୀ ଜଣେ ନାମଯାଦା ଡାକ୍ତର, ତାଙ୍କ କରେ ଅନେକ ଖାଙ୍କକ ଉଡି ଅଛି ବୋଲି ଆଣପାଣରେ ଥିବା ସମସ୍ତ ଜାଣନ୍ତି । ଗରୀର ନିଣୀଥକାଳରେ ବାହାର କରର ଗୋଖିଏ ହରକା ରାଙ୍ଗି ଉପରୋକ୍ତ ଦୁଇବ୍ୟକ୍ତି ଉଦ୍ଭ ଗୃତ ମଧ୍ୟରେ ପ୍ରବେଶ କରି ଥିଲେ । ଡାକ୍ତର ସାହେବଙ୍କ କରୁ ବିଛି ରୋରି କରି ନେବା ସେମାନଙ୍କର ଇତ୍ରା ଥିଲା ।

ପେଉଁ ଘରେ ଡାକୁର ସାହେକ ରୋଗୀ ପରୀଣା କରନ୍ତି ପ୍ରଥମେ ସେହି ଘରେ ପଣି 'ଚୋର ଦୁହେଁ ଦେଖିଲେ ଯେ ସେମାନଙ୍କ ସମ୍ମୁଖରେ ଗୋଞ୍ଜ କଡ଼ ସିଛୁକ ରହି ଅଛି। କଟେ ଚୋର ପ୍ରଥମେ ସେହି ସିଛୁକକୁ ରାଙ୍ଗି ଦେଖିଲା ଯେ ଚହିଁରେ ଅନେକ ଲୁଗାପଞ୍ଚା ଅଛି। ସେ ସେଗୁଡ଼ିକ ଆଦୁସାହ କରିବାକୁ ଲାଗିଲା। ଅନ୍ୟକଟ ଡାକୁରଙ୍କ ପବଳ୍ୟକହେତ ମୃହରେ ପ୍ରବେଶ କଲା। ଅଛକାରରେ ଅଣ୍ଡାଳି ହେଉଁ ୬ ରାହାର ହାର ଦେବାହ୍ ଏପରି ଏକ ସ୍ଥାନରେ ଲାଗି ଗଲା ଯେ ସେସ୍ଥାନରେ ଥିବା ନରକଙ୍କାଳ ମୂଖକ୍ୟାଦାନ କରି ହାରକୁ ସାଙ୍ଗାଚିକ ରାବରେ କାମ୍ଭି ଧରିଲା। ଯାଚନାରେ ସେ ରଡିଛାଡିବାକୁ ଆରମ୍ଭ

କଲା । ସେହି ରଡ଼ି ଶୁଣ ଅନ୍ୟ ଚୋର । ଲୁଗାଥ । ସବୁ ଛାଡି ର୍ଷ୍ଟା ଅନ୍ୟ ଦେଇ ବାହାରକୁ ଅଲାଇଲା । ଗୃହସ୍ୱମୀ ଓ ପ୍ରତିବେଶୀ ସମୟ ଜାଗ୍ରତ ହୋଇ ଆସି ଦେଖନ୍ତି ଯେ ଗୋଟିଏ ନରକଙ୍କାଳର ମୁଖ ମଧ୍ୟରେ ଏକ ସ୍ଥିଷ୍ଟ ଲାଗି ଥିବାରୁ ଚାହାର ମୁହଁ ହାଁ ହୋଇ ଥିଲା । ଦେବାତ୍ ଚୋର ହାଦବାର୍ଜ ସ୍ଥିଷ୍ଟ ଖସି ଯାଇ ହାତକୁ କୋର ପୂର୍ବକ କାନ୍ତି ଧରି ଅଛି ।

Translation from Gujarati into English.

Paper-Setters—

{ Dr. I. J. S. Taraporewala, B.A., Ph.D. Pandit Hargobind Dass Seth.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Translate into English two of the following passages:—

- (a) કાઈ માણસ હીંગણા, લુલા, લંગડા, કાણા કે આંઘળા હાય, મુગા 20 હાય કે બહેરા હાય, તેમાં તેના શા દાષ? આપણા અવયવા ના કરનાર તા ઈશ્વર છે. એમાં આપણું કંઈ ચલણ નથી. હવે જેમાં જેનું ચલણ નહિ. તેમાં તેના દાષ કાઢીને તેને હસી કાઢીએ, તા અન્યાય કીધા કહેવાય. તમે સહજ વિચાર કરશા તા જણાશે કે આપણને તેમ કરવાના 'કંઈ હક નથી. શરીરની રચના, રૂપ, રંગ ખુલ્દિ એસી પ્રભુ આપે છે. એથી તે માટે તા કાઈ મનક કરે તા તે ઈશ્વરની મંત્રક કર્યા જેવું ઠરે છે; પણ જે વાતમાં આપણું ચલણ છે અને તેમાં જો કંઈ દાષ હાય, તા આપણું રશરમાવું જોઈએ, અને તે ખામી દૂર કરવાની કાશેશ કરવા નાઈએ.
 - (b) હિંદની છેક પશ્ચિમે અરળી સમુદ્રના કિનારા પર આવેલા સામ- 20 નાથ પરણમાં મહાદેવનું એક પ્રખ્યાત દહેર હતું તેમાં પુષ્કળ દ્રત્ય હતું, એ મંદિરમાં એક મારી મૂર્તિ અંધારા ગભારામાં હતી. ત્યાં સાનાનાં રન્નજડિત કાંડીઆંમાં દીવા સળગાવતા. હેઠળ ભોંયરાંમાં સાનાના અને રત્નાના મારા લંડાર ભરેલા હતા. દરવાન્ન કમાડ સુખડના લાકડાનાં બનાવેલાં હતાં. એક, હન્નર બ્રાહ્મણા સભામંડપમાં ખેસી પૂજન કરતા, અને દરવાન્ન આગળ ૩૫૦ નેટા નૃત્ય કરતા. હિંદુરતાનના તમામ ભાગામાંથી નત્રાળુઓ દહેરું નેવાને તથા મૂર્તિને ભાગ ધરાવવાને આવતા. સામનાથની ખ્યાતી મહમૂદના સાંભળ-વામાં આવી ત્યારે તેણે તે દેવળ પર હતા કરી મૂર્તિનું ખંડન કરવાનું પણ લીધું.

(c) પાદશાહ અકબર એક વેળા વેશ બદલીને નગર ચર્ચા જેવાને 20 નીકળ્યો. યાડકે છેટે તે ગયા એટલે એક પુરૂષ લાકાને ધર્મોપદેશ કરતા તેના જેવામાં આવ્યા. પાદશાહતે ટેકાણે ઉભા રહ્યા. પેલા પુરૂષન બાલતા અટકાવા વચમાં એક ધરડા માણરે પૂછકં, "માલવા સાહેબ, આપને કાણે પેદા કર્યા?" તે ડાસા પાસે એક નાના છાકરા ઉભા હતા તેને ખતાવાને માલવાએ કહ્યું કે "આ છાકરા પણ પાતાના પેદા કરનારને જાણે છે, પણ હાં જાણતા નથા!" ડાસે જવાબ દીધા, "સાહેબ, એને આવ્યાને પાંચ સાત વરસ થયાં છે તેથી તે પાતાના પેદા કરનારને એાળખે, પણ કું અહીં આં સાઢ વરસના આવેલા તામને અસલના વાત કેમ યાદ રહે?"

TRANSLATION FROM URDU INTO ENGLISH

Paper-Setters— { Khan Sahib Reza Ali Wahshat, Maulvi Md. Ishaq, M.A.

Condidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following extracts:-

Α.

20

رالیت میں پلے یہ قاعدہ تھا کہ سرکار شریف خاندانوں کے لڑکوں کو اپنے خرچ ت پڑھا لکھا کو ھندوستان کی نوکویوں کے واسطے تیار کرتی تھی ۔ اُن دنوں جو انگریز ھندوستان آئے تھے سب خاندانی ھوتے تھے ۔ اب چند سال سے سرکار نے اس دستور کو موقوف کوکے اختحان کا طریقہ جاری کیا ہے ۔ لوگ اپنے طور پر ھندوستان کی نوکوی کے لئے لیاقت بہم بہندچاکر امتحان دیتے ھیں ۔ جو امتحان پاس کوتے ھیں آنکو نوکوی ملجاتی ہے ۔ دھوبی حجام موجی و غیرہ پیشدوروں کے لڑک جنگی والیت میں کنچھ عزت نہیں محنت کوکے امتحان پاس کی لیتے ھیں *

B.

20

اتنے میں ایک شخص نے میرے پاس آکر کہا اسی مسجد میں تو جاکر بیتھہ شاید تیرا مطلب اس جگھہ ہرآئے ارر تو ایخ دل کی

. 20

ایران میں رسم هے که شروع بہار میں ایک عید کیجاتی هے ۔
ملک بھر میں نہایت خوشی و خرمی ہوتی هے ۔ شاہ ایران آمراے
سلطنت کو خلعت و انعام حسب مدارج عطا کرتے ہیں ۔ نادو نے
اس موقع پر شاہان ایران سے زیادہ شان و شوکت دکھائی اور عارضی
طور پر ایک نہایت عمدہ اور نفیس عمارت تیار کرائی جس میں
عیش و عشرت کے جملہ لوازم نہایت فراخ دلی سے مہیا کئے ۔ اختتام
عید پر جملہ سرداران فوج اور اراکین سلطنت کے روبرو تقریر کی که
شاهی خاندان کے شاهزادے یہاں موجود هیں ۔ تم لوگ جسکو پسند کرو

. Translation from Persian into English

Paper-Setter—Aga Md. Kazim Shirazi.

Candidates are required to quie their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English:-

Α.

صدر اعظم آمده عرض کرد که رزیر هند معطل است میخواهد اجزای خودرا معرفی کند و اهالی شهرهات انگلیس هم عریضهٔ تهنیت وردد آورده میخواهند بخوانند - رفتیم توی تالار وکلای شهرهای بزرگ

انگلیس آمده نطق تهنیت رردرا عرض کردند - بعد رزیر هند اجزای خودرا معرفی کرد - پس از آن سوار کالسکه شده رفتیم براه آهن - ملتز مین همراه بودند - سوار شده رفتیم به ریندزر - قصر بسیار بزرگی است - در حقیقت قلعه سختی مبباشد - از قدیم با سنگ ساخته اند - رری تپه راقع است دم پلهٔ قصر پیاده شدیم - بادشاه تا بای پله به پذیرائی آمدند - بایشان دست داده رفتیم بالا - قدری مکث کرده بعد با رلیعهد انگلیس آمده سوار اسپ شدیم - صاحب منصبان انگلیس با یکدستهٔ سوارهٔ نظام همه جلو افتادند - از خیابان طویل جلو عمارت راندیم برای آخر خیابان که آنجا رسعتگاه میدان مشق است - عمارت راندیم برای آخر خیابان که آنجا رسعتگاه میدان مشق است - یک فرسنگ درست راه بود - طرفین راه آژدهام بطوری بود که مجال یک فرسنگ درست راه بود - طرفین راه آژدهام بطوری بود که مجال اسپها رم میکردند و دیوانگی مینمودند *

B. 26

سکینه خانم میگوید - آقا سلمان خودتان میدانید که هفت ماه فال از ربائی تمام مردم گریخته متفرق شده بودند حاجی غفر مرد با ترکلی بود میگفت من جائی نخواهم رفت اما برای احتیاط شصت هزار تومان پول موجود میان صندتها با ثبوت و شاهد بود بخانهٔ حاکم شرع سپرد که اگر احیاناً بمیرم بعد بوارث شرعی من بده - حاکم شرع همان مبلغرا بر داشته مثل سایر مردم از شهر بیرون رفت - من و برادرم با یک زن صیغهٔ در خانه ماندیم اتفاقاً برادرم ناخوش شد - کسی هم در شهر نبود مگر یکدستهٔ سرباز از جانب دیوان گذاشته بودند خانهای مردمرا متعافظت کنند مردهها را بقبرستان ببرند - آن روز چهار تا سرباز خانهٔ ما آمدند برادرم بانها گفت می میرم غیر از این همشیره ام در دنیا وارثی ندارم - این را گفت و برحمت خدا رفت - حالازن برادرم که صیغهٔ است و هیچ ارث و برحمت خدا رفت - حالازن برادرم شود - با من بمرافعه را ایستد و برقع دارم درین خصوص از جانب من وکیل باش *

C.

در زمان ناصر الدین شاه شهر طهران رسعت و عمران زیاد پیدا کرد و روز بروز بر آبادی می افزود عمارت سلطنتی متعدد در نقاط معتدفه بنا کرد - مدرسهٔ دار الفنون یکی از بناهای از میباشد و در عهد همین شاهنشاه بعضی صنایع و اختراعات جدیده از تلگرانی و تلفن و بلورسازی و راههای شوسه وغیره در ایران معمول گردید اگرچه مردم در عهد از براحت بودند لیکن از طرف دیگر مانع ترقی مملکت و ملت بود نمیگذاشت بهینچرجه بوی فضل و علم حقیقی بدماغ کسی برسد و مملکت بطوری در فشار استبداد بود که هیچ کس جرات نفس کشیدن نداشت ناصر الدین شاه در سنهٔ ۱۲۸۸ میرزا حسین نفس کشیدن نداشت ناصر الدین شاه در سنهٔ ۱۲۸۸ میرزا حسین خانرا صدارت داد این مرد با دانش وضع و ترتیب دربار را بکلی تغییر داده با اصول فرنگ ادارات درلتی را نهاد و در دفع ظلم و تعدی کوشش زیاد داشت و رسه رشوه و تعارف موقوف نمود *

Translation from Sinhalese into English.

Paper-Setter—Rev. Saugata Sugatakanti.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Translate any two of the following:—

(a) එක් සමයෙක්හි අප බෝසතාණෝ බරණැස් 20 තුවර බරණැස් රජුන් පිණිස බරණැස් රැජිනියගේ කුසැ පිළිසිද ගත්හ. ඔවුන් විසින් එම කුමරාගට බඹ දත් යෙසි නම තබන ලදි. කුමාරතෙමේ චර්ධනය වෙමින් සුදුසු ශාසතුයන් ඉගෙනගත්තේය. කුමාරයා පියරජනුගේ ඇවැමෙත් රජකමට පත් විය. ඔහු ඉතා හොඳ ගනිගුණ ඇති ඉතා කරුණාවත් නුවණැනි කර්තවා පරාශණ රජෙක් විය. එනිසා එතුමාගේ මනතුමණිකලයද රජතුමා ච්මෙන් යහපත් ගතිගුණ ඇති විය. එනිසා එතුමාගේ මනතුමණිකලයද රජතුමා ච්මෙන් යහපත් ගතිගුණ ඇති විය. නොබෝ දුම නඩුශාලාවෝ නඩුනැති බැවින් නිස් විය.

ඉක්බිනි බොබිසතිනෙමේ මෙසේ කලපතා කළේය. "සියඑ විනිශවයකලාවෝ නබු නැති බැවින් නිස් වූහ. මගේ පූජා නොමො ඉතා සැපසේ කාලය යවයි.' දක් ඉතින් මාතුල යමක් දෙස් තිබේ නම් එය බැලීම සහ ඒවායෙන් මිදිමට උත්සාහ කරන්ට ඕනෑ " යි.

- (b) බොඩිසතිතෙමේ කරුණුවෙන් මෙසේ සීහ-"20 සුමෙන් නෙමේ මනුෂාගෙස්ය මම නම් නිරුසනාය. සුමෙන් නෙමේට යමස් ශිරිහර පීඩාව හැටියට වැටහේ ද එද මට ගිරිහර පීඩා නොවෙන්ට පුළුවනි. මනුෂා යන්ගේ ජීවන්ව ඉන්ට එක්නරා කුමයක් නිබේ. එසේම නිරුසන් ගනික සතියන්ට ද වෙන කුමයක් ජීවන්ව ඉන්ට අන කරුණු. මෙසේ බැවින් මට සුමෙන් සම්බන්ධ බැහැ. එ කෙසේ වෙනත් සුමෙන් නෙමේ මාව සතුටු කරන්ට කැමිනි නම් මීට පසු කැලද ඉන්න අශරණ සතුන්ට හිංසා කරන්ට එපා. එ මන්ද කිය නොත් ඔවුන් ජීවනව සිටින්ට සතුටුයි. ඉවුන් මැරෙන්ට බයයි.
- (c) මෙහි ඉසිපනන නම්වූ මිගදව වනයෙහි නථා 20 හතයන් වහන්සේ විසින් බම්වකුසුතුය දෙශනා කොට වදුරණ ලදි. එද, ඉනා ශානාවූ සුඛය එලවන්නාවූ සවසකාලය විය. මණුම් මාරුත හටන්ට පටන් හත්තේය. නාරකා අගස්හි බැබලිණි. පුපෙගණියෙන් මුළු වාහය සුගන්බන විය. බුදු බණ ඇසීමට සියඵ දෙවනාවෝ සහ කුඩා ලොකු සියළු සමයෝ එහාට පැමිණියාහ. නථාගනයන් විසින් දෙශනා පාළියෙන් කරණ ලදි නමුන් පණුවමගන්න හිණුන් මෙන් සියළු සමයෝ එම ධම්ය හොදින් අවබෙබේ කළහ.

TRANSLATION FROM BURMESE INTO ENGLISH.

Paper-Setters— { Maung We Lin. Maung Ba, B.L.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English .-

40

- (a) ထိုကာလံ၌ကားမိဘထိုအရှိအသေလုပ်ကျွေးခြင်း။သူတပါး တိုအား ချစ်ခင်သနားခြင်း။ အလူပေးခြင်း။ သိလှဆောက် တည်ခြင်းစသည်ဂုဏ်နှင့် ပြည့်စုံသောယောက်ျားမြတ်တို့ကို မဟာသခုဒ္ဒရာ၌ နှစ်မွန်းရှိမသေစေလင့်ဟု စ**တုလောကပါ** လနဘ်မင်းကြီးလေးယောက်တို့က မဏိမေခလာမည်သော နတ်သြီးအား ထိုနှစ်မှုန်းသောသူတို့ကို ဆယ်တင်စိမ့်သော င္ါ သမုဒ္သ နာ၌ အစောင္ခ်ထားကြသတည်း၊ထိုဘုရားလောင်း နှစ်တော်မသော ခုနှစ်ရက်တွ**င်း၌**ကား မဏ်မေခလာနုတ် သိုးသည် မြဲခဲ့ဘုံဗိမာန်၌ နတ်၏ စည်းစိမ်ကို စံစားခြင်းဖြင့် မေ့လျော့၍ သမုဒ္ဒရာမှာ မည်သို့ဖြစ်လိမ့်အံ့နည်းဟု မကြည့် မဆင်မြင်မိဖြစ်၏။ ခုနှစ်ရက်မြောက်သောနေ့မှ သတိရ၍ ငါ ကား သမုဒ္သက္ကကို မကြည့်မိသည် ယခန္ ခုနှစ်ရက်ရှိပြုစီအ ကြောင်း အသွနည်းဟု သမုဒ္ဒရာကို ရှုကြည့် ဆင်ခြင်လေ သော်။ ရွှေဘုံးကဲ့သို့ တပြောင်းပြန်ပြန် ကူးသော ဘုရား လောင်းကိုမြင်လျှင် မိနိလာပြည့်ရှင်သားဖြစ်သော ဤမဟာ ဇနကသဘ္ခိသားသည် အကယ်ရှိ မဟာသမုဒ္ဒရာ၌ နစ်မွန်း ၍ ဆုံးချေအံ့။ ငါသည် နတ် အစည်း အဝေး သဘင်သွ ဝင်ရတော့မည် မဘုတ်ဟု ကြီလျက်။ တင့်တယ်သော မြခါး ရန်းကြီး ပြီးပြီးပျက်တောက်ပသော အဝတ်တန်းဆာတို့ဖြစ် တန်ဆာဆင်အပ်သော နူးညံ့ရသိသွေးစွာသော ကိုယ်ဖြင့် ဘုနားလောင်းရှိရာ မဘာသမုဋ္ဌရာ အပြင်သို့သွား၍ မနီးမ ဝေးသော ကောင်းကဝ်က ကိုယ်ထင်ပြကာရဝ်လျက် ဤသို့ ဆို၏။
- (၀) လွန်လေပြီးသောအခါ။ ဗာရာဏသီပြည်မှ မနီးမဝေးသော အရပ်၌ အမွန်ရှည်သော မြစ်သည်ရှိ၏။ ထိုမြစ်၏ ဤမှာ ဘက်ကမ်းနား၌နေသာဒဂါမဟု ဆိုအပ်သော တခုသော တငါရွာသည်ရှိ၏။ ထိုမှာဘက်ကမ်းနား၌လည်း တငါရွာ

သည်ရှိ၏ တရာ တရွာ၌လည်း ငါးရာ ငါးရာသောတဲငါ မျိုးတို့သည်နေကြကုန်၏ ထိုနှစ်ရွာတို့၌လည်း တင်ကြီးနှစ် ယောက်တို့သည်ရှိကုန်၏။ အဆွေခင်ပွန်းပြရွ်နေကုန်၏။ ထို တင်ကြီး နှစ်ယောက်တို့သည် ငယ်သောအခါ ကင်လျှင် ကတိကဝတ်ပြ ကြကုန်၏။ အဆွေ။ ငါတို့ပင် တယောက် သောသူအား သီးရှိသည်ဖြစ်အံ့။ တယောက်သောသူအား သား ယောက်ျား ရှိသည်ဖြစ်အံ့။ ထိုသားသီးတို့အားထိမ်း မြားခြင်း မင်္ဂလာကိုပြကြကုန်အံ့ဟု ကတိကဝတ်ပြပြီးသော် ထိုသို့ ကတိကဝတ်ပြပြီးလောကာလ၌။ ဤမှာဘက်၌ရွာသူ ကြီးအား သား ယောက်ျား ဘွား၏။ ဤမှာဘက်၌ရွာသူ ကြီးအား သား ယောက်ျား ဘွား၏။ ဤမှာဘက်မှ တပါး ရွာသူကြီး အိမ်၌ သားမိန်းကလေး ဘွားလေ၏။ ထိုနှစ် ယောက်သော သားငယ် သီးငယ်တို့သည် အလွန်အသင်း လှကုန်၏။ တင်းမြန်းဖြစ်သော်လည်း အသက်သတ်ခြင်း အစရှိသောခုစရိုက်ကိုမပြကုန်။

(e) ဇာလီမင်းသားသည်။ ဘိုးတော်မင်းကြီး။ တောအရပ်၌နေ ရသော ကျွန်ုပ်တို့သခင် တေသန္တရာ မင်းအား ဆင် မြင်း ဆိတ် နွှား ရထား ကျွန်ကျေးကိုကို လှူချင်သော်လည်း အ ဘယ်မှာရအုံနည်းဟုဆို၏။ ထိုမြေးတော်တို့စကားကိုကြား လျှင် သိဉ္စည်း မင်းကြီးသည်။ ငါ့မြေးတော်တို့။ သင်တို့ ခ **့မည်းတော်၏** သ**ားသိုးအလှူကို** ငါတို့ချီးမွှမ်းသည်သာဖြစ် ၏။ မကဲ့ရဲ့ပါကုန်။ မြေးတော်တို့ကိုလှူသောအခါ သင့်ဘ ခင်သည် အဘယ်သို့နှလုံးရှိပါအံ့နည်းဟုဆို၏။ ဇာလီမင်း သားသည် ထိုစကားကိုကြားလျှင်။ ဘိုးတော်မင်းကြီး။ ဤ ပုဍားအား အကျွန်ုပ်တို့ကိုလှူင်သာအခါ မည်းတော်၏ နှလုံးသည့်အလွန်ပူပင်ဆင်းရဲတော်မူ၏။ ပုဏ္ဏားအားလှူပြီး သည့်နောက်၌ ပုဏ္ဏား၏ရိုက်ပုတ်ဆင်းရဲခြင်းကိုမခံနိုင်သည် ဖြင့်၍အကျွန်ုပ်၏ နှိမကဏှာဇန်သည်။ခမည်းတော်မင်းကြီး။ အကျွန်ုပ်တို့ကို ပူဏ္ဏားသည် သားပေါက် ကျွန်မကဲ့သို့နွယ် မြင့် တုပ်နှောင်လျက် ပြင်းစွာ ပုတ်ခတ်ဘို၏။ ပုဏ္ဏားမည် သည်တရားကိုစောင့်လေ့ရှိလျက် ဤသူက**ား ပုဏ္ဏားမဟုတ်** ဘီလူးထင်၏။အကျွန်ုဂ်တို့ကိုစားအံ့သောငှါဆောင်ယူလာ သော ဤဘီလူးပူက္လွားအား ခမည်းတော် အဘယ်ကြော**င့်**့ ရှစ်တ်ဘိသနည်းဟု သည်းစွာ ငိုကြွေးမြည်တမ်းထောအခါ **ကွန်ပ်ခမည်း**တော်မင်းကြီးသည် အ**လွန်ပင်ပန်းသော နှလုံး** ရှိတော်မူသည်ဟုဆို၏။

TRANSLATION FROM MODERN ARMENIAN INTO ENGLISH.

Paper-Setters— $\left\{ \begin{array}{ll} M_{R.} & M. & J. & Seth, & M.R.A.S. \\ ,, & S. & Mihijan. \end{array} \right.$

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

• 1. Translate any two of the following three passages into English:—

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TRANSLATION FROM MODERN TIBETAN INTO ENGLISH.

Paper-Setter-Mr. KARMA SAMDON PAUL

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any two of the following:-
- भूकाकालिकाक्षका | लेकानोश्वेटकारा-देटः | जिकाकुकालिकारा | यर्ना-मू-लेकाकुवानी-द्र-श्रिकाकालिकाक्षका | लेकानोश्वेटकारा-देटः | जिकाकुकानुकान्त्र | क्षेत्र स्वानी-द्र-श्रिकाकालिकाक्षका | क्षेत्र स्वानी-द्र- स्व

पर्टर-तिभःसंभः भृष्टां चर्ट् ह्रींच् ताभः पर्ट्वस ।। तिभः चभः पश्चः तत्तृ त्यूभः भीटः चर्ट्य। भः भेषः चभः कृषोः भश्चरः चभः लटशः देशः लूटः । ष्ट्रः चभः चः भीषः मुोः कः जोत्राभः लुच् । तीभः कृषः चर्त्वाः जः श्वीषाः लूटः पर्त्येः चः पर्ट्टा भी सिक्यः क्षाः भारत्र्यः कृषा । विभशः विशेषः पर्त्तिः सप्तः शुष्तश्चरः वश्चः श्वश्चः वर्तः भीटः । पर्देशः चन्नः

. (b) શ્રદ્ય-મુશ્ર-મુગ્ર-દ્વાદશ-દ્વશ્વ-પાનુશ્રદ્ધ-પા | વિદ-નેશ-દ્વાશ-દ્વાશ-દ્વાર-પાનુ સ્થાપ-પાનુ સાથે છે. વિદ સાથે પાનુ સાથે પાનું પાનુ ८८.५६व.१५.सटसार्के.लूर। ८.४म.व्टि.सटसामिस.से.४चीर.स्.५४म.सि.८**८४.८**ची ৳ৼ৾৽ৠ৾৾৻৸ঽ৻ঀৢ৾য়৻৳ৼ৾৻৸৻ৼ৾ঀ৾য়৻**৻ৼ৾৻৾৴ঀ৾৾৻য়ঢ়ৢৼ৾৻য়৻ৼঢ়ঀ৾৻৻ঢ়ৢৼ৻ৼ৾৻ঀ৾৾৻ৼ৻ঀ৾ৼ৻ঀয়ৼৢ৻**৾ इपाक्ष⁻द्वराक्ष-दे-दर्-दे-दे-दे-दे-दो-पाकेर-भारक्य-दर-पाक्य-प्रसादक्य-दे-दि-पाक्य-दर-देन . ଅଧି : ମୁନ୍ଦ : ଅଧି : ଜୁର୍ଘ : ଅଧିକ: ସ.ଏ. ମୁନ୍ଦ : ଅଧିକ: ७्ज.सहुट.च.४भभ<u>.सू । कूर्य.च</u>ी.६चांबा.चांबीक.सहुट.च.४ट. । <u>प्रिट.वे**जफ.सु.रब.ल**४.जेट.</u> खेच.हे.खे.च.द.चेद.रे.हेच.वर्षण.कु.च.लुद.तर.ट्च्एश्। सुराःभोवदाससूट.वरटाव्टर พ.ผู้.น.ทู.ใน.ก.ป.เทพ.สะ.นบู.รู.น.นิ๊ะ.รู. | ผู้พ.ปะ.ชิะ.พ.ป**ะ.สีพ.ผีะพ.**รู. . ये. से. चेचात्र . यंत्राक्ष्य . व्याया व्याया . यो. व्याया . या. व्याया . या. व्याया . या. व्याया . या. व् ज्ञःक्षित्रः वर्षान्त्रस्य । ट.वृ.सूत्रः शोचर-दे.चौर-व.लूब्वेषान्त्रस्य । द्रे.वत्रः मूट्टःस्रीः ਜ਼.ॳ॔ॄॖॴ,क़॔ॴ.ਜ਼क़ॴॴ**ॴ.स४.सधस**ॴॡॖॴ.चढ़ॖॱक़ॖऀ४.५ॴॳ.च.য়ऀ॔॔॔॔॔ॖढ़८ढ़ॖऀॖढ़ढ़ॗॳॱॴ. चर्षेचात्रास्त्रा पर्दाक्षीचूराची चर्चा पह्रवाहीय चालेशाया दे जाना सामित कर्ते न वश्यत्रे वर्ष्यस्य वर्षश्यस्य । लट्टावट्टर्वे वर्ष्यस्य पट्टर्द्वावर्ष्यस्य वर्ष्यस्य वर्षास्य बर.रवत.त्वर.१९८.सूत्राक्षेत्र.पेश.वर्ष.वर्ष. त.३८.ज.धुव.श्र.विव.त.वोज्ञताश.पश.वश. द्येशास् । र्वाक्षाचित्रा अत्यक्षाक्षित्र क्षित्र क्षित्र हित्या र विद्या स्वत्य क्षित्र हित्य । विद्या क्षत्रः कुष्रः श्रद्धः कुष्रः देहः देहः दः यः चतुषाक्षः दशः दण्यः च : दणः चे दः दि : यः चे दः दुः यः चे दः दुः वर्षेर:र्रा।

Translation from Kanarese into English
Paper-Sette:—Mr. P. Appaji Rao, B.Sc.
Candidates are required to give their answers in their
oun words as far as practicable.

The figures in the margin indicate full marks

Translate any two of the following passages into proper idiomatic

English:---

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(a) ಆದರೆ, ಕನ್ನಡಿಗರೇ ಕನ್ನಡವನ್ನು ಮರೆತು ಸರವಾ ಜೋಹದಲ್ಲಿ ಬಿಡ್ಡು ಕನ್ನಡವನ್ನು ತಿರಸ್ಕರಿಸ ಹೊರಟಾಗ ಪರರಿಗೆ ನಾವು ಉಪದೇಶ ಮಾಡುವ ಉಸಾಬರಿಗೆ ಹೋಗದೆ ಕನ್ನಡ ಭಕ್ತರು ಅಲ್ಪ ಸಂಖ್ಯಾಕರೇ ಇದ್ದರೂ ಅವರನ್ನ ಸ್ಟೇ ಒಟ್ಟು ಗೂಡಿಸಿ ಕನ್ನಡ ಧರ್ಮವನ್ನು ಬಳೆಯಿಸ ಬೇಕು. ಕನ್ನಡ ಭಕ್ತಿಯನ್ನು ಮೊದಲು ಕನ್ನಡಿಗರಲ್ಲಿ ಜಾಗೃತ ವಾಗಿ ಮಾಡದೆ ಪರರಿಗೆ ಉಪದೇಶ ಮಾಡ ಹೋಗುವುದು ಫಲಕಾರಿ ಯಾಗಲಕ್ಕಿಲ್ಲ. ಜಗ ನ್ನಾಥ ದಾಸರು ಹೇಳಿರುವಂತೆ, ಸಂಸ್ಕೃತ ವಿದಲ್ಲೆಂದು ಕುಹಕ ತಿರಸ್ಕರಿಸಲೇ ನಹುದು? ಅಂದರು ಭಾಸ್ಕರನನ್ನು ತಿರಸ್ಕರಿಸಿದರೆ ಏನಾಗುವುದು? ಆಗಿನ ಕಾಲದಲ್ಲಿ ಯೇ ಕನ್ನಡದಲ್ಲಿ ಇಷ್ಟು ಅಭಿಮಾನವನ್ನು ಹಿಡಿದವರು ಹುಟ್ಟರಲು, ಈಗ ಪರರು ತಿರಸ್ಕರಿಸುವರೆಂದೂ, ನಮ್ಮವರೇ ಅನಾದರಿಸುವರೆಂದೂ ಹೆದರುವ ಕಾರಣವಿಲ್ಲ. ಮು ನರಸೀಹಾಚಾರ್ಯರು ಕನ್ನಡದ ಪ್ರಾಚೀನ ವಾಹ್ಮಯದಲ್ಲಿ ತಮ್ಮ ಅದ್ಭುತ ಪರಿಶ್ರಮದ ಶೋಧಗಳಿಂದ ಪ್ರಕಾಶ ವನ್ನು ಬೀರಲು, ಕನ್ನಡದ ವೈಭವದ ಕಡೆಗೆ ಹಣಿಕಿಕ್ಕದೆ ಆ ಭಾಷೆಯ ಅಜ್ಞ ತೆಯಿಂದ ಅಂಧರಾಗಿ ಕನ್ನಡವನ್ನು ತಿರಸ್ಕರಿಸಿದರೆ ಏನಾಗುವುದು? ನಮ್ಮ ಕನ್ನಡಭಕ್ತರು ತಮ್ಮ ಅತುಲ ಭಕ್ತಿಗೆ ನ್ಯೂನತೆ ಬಾರದಂತೆ ಕೆಲಸ ಮಾಡಿದರೆ ತೀರಿತು; ನಿಶ್ಚಯವಾಗಿ ಕಾರ್ಯ ಸಿದ್ದಿಯಾಗುವುದು.

- (ಹ) ಮೊದಲನೆಯ ಭಾಗವು ಪರಿವರ್ತನಕಾರರ ಉಪೋದ್ಘಾತಹಾಗ್ತಿದೆ. ಈ ಉಪೋದ್ಘಾತವು ಮೂಲಕ್ಕಿಂತಲೂ ದೊಡ್ಡ ದಾಗಿರುವುದೇ ಇದರ ವಿಶೇಷ. ಇದರಲ್ಲಿ ರುವ ವಿಷಯಗಳಾದರೋ, ೧೯೧೪ ನೆಯ ಸಾರ್ವತ್ರಿಕ ಮಹಾಯುದ್ದ ದ ವಿಚಾರ ಮೊದಲ್ಲೊಂಡು ಮುನ್ನೆ ಬೆಂಗಳೂರಿನಲ್ಲಿ ನಡೆದ ಗಲಾಟೆಯ ವಿಚಾರದ ವರೆಗೂ ಹಬ್ಬಿವೆ. ಪರಿವರ್ತನಕಾರರು ರಾವು ರಚಿಸಿರುವ ಅನೇಕ ಗ್ರಂಥಗಳನ್ನೂ, ರಾವು ಮಾಡ ಬೇಕೆಂದುದ್ದೇಶಿಸಿರುವ ದೇಶಹಿತ ಕಾರ್ಯವನ್ನೂ ಪ್ರಕಟಪಡಿಸಲೋ ಎಂಬಂತೆ ವಾಚಕರ ಗಮನವನ್ನು ಆಗಾಗ ಅವಕ್ಕೆ ಸೆಳೆಯುತ್ತಿರುವರು. ಅನ್ಯದೇಶೀಯರಾದ ಅನೇಕ ಮಂದಿ ಪಂಡಿತರ ಹೆಸರನ್ನೂ ಅವರ ಗ್ರಂಥಗಳನ್ನೂ ಆಗಾಗ ಹೇಳುವುದರಿಂದ, ಇವರ ಹೆಸರನ್ನೆ ಅರಿಯದ ಕನ್ನಡಿಗರಿಗೆ ಏನು ಪ್ರಯೋಜನವಾದಂತಾಯಿತು? ಈ ಉಪೋದ್ಘಾತವನ್ನು ಓದುವಾಗ, ಶ್ರೀಮಾನ್ ರಾ ಧಾಕೃಷ್ಣಯ್ಯರವರ "ಭಾರತ ಧರ್ಮ್ಮಕ್ಕೂ" ಉಪೋದ್ಘಾತದಲ್ಲಿ ಚರ್ಚಿಸಿರುವ ಆನೇ ಕಾನೇಕಸ್ಥಳೀಯ ವಿಷಯಗಳಿಗೂ ನಿಕಟ ಸಂಬಂಧವನ್ನು ಕಲ್ಪಿಸುವುದು ಹೇಗೆ? ಎಂಬುದು ವಾಚಕರನ್ನು ಬಾಧಿಸುವುದು. ಪ್ರಪಂಚದಲ್ಲಿಲ್ಲ ಅತ್ಯಂತ ಪ್ರಸಿದ್ಧಿ ಪಡೆದಿರುವ ಪ್ರೌಢಶಾಸ್ತ್ರಜ್ಞರನ್ನೂ ಕೇವಲ ಸಾಮಾನ್ಯರಾದ ಸ್ಥಳೀಯ ಕರ್ಮಕಾರರನ್ನೂ ಒಂದೇ ಅಂತಸ್ತ್ರಿನಲ್ಲಿ ರುವ ಹಾಗೆ ತೋರುವಂತೆ ಹೋಗಳಿರುವುದು ಲೇಖಕರ ತಾರತಮ್ಮ ಜ್ಞಾನ ವನ್ನು ಪ್ರಶಂಸಿಸುವಂತಿಲ್ಲ. ಅಂತು, ಈ ಉಫೋದ್ಘಾತವನ್ನು ಬರೆಯದಿದ್ದೆಲ್ಲಿ, ಪರಿ ವರ್ತನಕಾರರ ಶ್ರಮವು ಹೆಚ್ಚಾಗಿ ಅಭಿನಂದೋಯವಾಗುತ್ತಿದಿಕೆಂದು ಕೋರುವುದು.
- (c) ಪ್ರಕೃತ, ಮೇಲೆ ಹೇಳಿದ ರೀತಿಯಲ್ಲಿ ಪರರಲ್ಲಿ ದೈಷದಿಂದರೋ ಅಥವಾ ತಮಗೆ ಫಲನ್ರಾಪ್ತಿಯಾಗ ಬೇಕೆಂಬ ಅಭಿಲಾಷೆಯಿಂದರೋ, ಅಥವಾ ಬ್ರಾಹ್ಮಕಾದಿ ವರ್ಣಭೇದವನ್ನು ಒಪ್ಪದೆ ಇರುವ ಜನಗಳ ಉಪದೇಶದಲ್ಲಿ ನಂಬಿಕೆಯಿಂದರೋ ನಮ್ಮ ಭಾರತೀಯ ಸಹೋದರರು ಬ್ರಾಹ್ಮಣದ್ವೇಷವನ್ನು ಮಾಡುತ್ತಿರ ಬಹುದು. ಇದು ಹೇಗಾದರೂ ಆಗಲಿ. ಇವರು ತಮ್ಮಗೂ, ತಮ್ಮ ದೇಶದ ಜನಗಳಿಗೆಲ್ಲ ರಿಗೂ ಸುಖವೆಂಟಾಗುವುದಕ್ಕೆ ಸಾಧನಗಳನ್ನು ಚನ್ನಾಗಿ ತಿಳಿದು ಕೊಳ್ಳಲಿಲ್ಲ ವೆಂದು ಹೇಳ ಬೇಕಾಗಿದೆ. ಹೇಗೆ ಎಂದರೆ ಅನೇಕವಾದ ಬೇರೆ ಬೇರೆ ದೇಶಗಳಿವೆ. ಅಲ್ಲಲ್ಲಿ ವಾಸ ಮಾಡುವ ಜನರೆಲ್ಲರೂ ತಮ್ಮ ತಮ್ಮ ದೇಶದ ಅಭಿವೃದ್ಧಿಗಾಗಿ ನಡೆಸ ತಕ್ಕ ಕಾರ್ಯಗಳಲ್ಲಿ ಐಕ್ಯಮತ್ಯವನ್ನು ಹೊಂದಿ ಶಕ್ಯವಾದಷ್ಟು ಫಲಗಳನ್ನು ಹೊಂದುತ್ತಿರುವರು. ಅವರಲ್ಲಿರುವ ಬೇರೆ ಬೇರೆ ಅನು ಪತ್ತಿಗಳನ್ನು ಮಹಾಕಾರ್ಯಗಳ ಸಾಧನೆಯಲ್ಲಿ ಬಾಧಕವಾಗುವಂತೆ ಯೋಚನೆಗೇ ತರುವಿದಿಲ್ಲ.

. ಕ್ಷೇಮಸ್ಥಿ ತಿಯಲ್ಲಿದೆ. ದಿನಕ್ರಮದಿಂದ ಅಭಿವೃದ್ಧಿಯನ್ನೂ ಪಡೆಯುತ್ತಲಿದೆ. ನಮ್ಮ ಭರತಖಂಡವೂ ಕೂಡ ಬಹುಕಾಲದ ಹಿಂದೆ ವರ್ಣಾಶ್ರಮ ಧರ್ಮಗಳನ್ನು ಅನುಸರಿಸಿ ವರ್ತಿಸುತ್ತಿದ್ದ ಜನಗಳಿಂದಲೆ ನಿಬಿಡವಾಗಿದ್ದು ವಿದ್ಯಾನಿಷಯದಲ್ಲಿಯೂ ಇತರಳಳಾ ನಿಷಯದಲ್ಲಿಯೂ, ಒಬ್ಬರಿಗೊಬ್ಬರು ಹಿತಚಿಂತಕರಾಗಿರುವುದರಲ್ಲಿಯೂ, ತಮ್ಮ ತಮ್ಮ ಸಂಪತ್ತನ್ನು ತಾವೆ ಅನುಭನಿಸ ಬೇಕೆಂಬ ಲೋಭ ದೃಷ್ಟಿಯಲ್ಲದೆ, ಜರ್ವಪ್ರಾಣಿಗಳಿಗೂ ಹಿತನಾಧನನಾಗುವಂತೆ ತಮ್ಮ ಉಪಪತ್ತಿಯನ್ನು ವಿನಿಯೋಗುವಿಗ ಮಾಡುತ್ತಿದ್ದು ವರಲ್ಲಿಯೂ, ಗುಶಾಧಿಕರಲ್ಲಿ ನಮ್ರತೆಯಲ್ಲಿಯೂ, ಬೆಜ್ಜೀಕೇಳಿ ನರಣವಿಗೆ ೧೯೮೪ ಯೂ ಆವ ದೇಶಕ್ಕೂ ಹಿಂದೆ ಬೀಳದಂತೆ ಪ್ರಕಾಶಮಾನನಾಗಿರಲಿಲ್ಲ ವೆತಿ

TRANSLATION FROM KHASI INTO ENGLISH

Paper-Setter-MR. Roy Rowland Thomas, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following passages:-

(a) Ha kawei ka por la khie ka thma kaba neh slem shibun hapdeng u laiphewmrad bad u laiphewsim. Bunsien kila lakh ki mrad. Bad haba kumta u lymbit u leit sha ki bad u ong, 'Kolok, phi i nga ruh u mrad hi kum phi, namar ngam don sner kum ki sim la nga ler kum ki, hynrei nga don shniuh bad ki bniat kiba nep kum ki jong phi hi.' Hynrei ynda haditen ka thma kala kylla. Da ka jing uarap ki Pukni la pynher krad ia u laiphewmrad baroh shapoh khlaw. U lymbit ynda u la iohi ia kane ula leit ialang lok sa bad ki Sim pat, u oug, 'Kolok, phi i nga ruh ka sim kum phi hi, la nga don shisha u shniuh bad ki bniat kum ki mrad, hyprei nga shu her kum phi hi, ngam don kti ngam don kjat kum u mrad bad ngam lah ban iaid.'

(b) Ha kawei ka meit u suri u la leit shang tuh kylleng hynrei um ioh ei ei rul. Ynda hadien u wan poi ha shakiar kawei ka ing. Hangta ka kmie ka mai la i khun iba iam bad ka ong, 'En jar, ioh nga shat shabar un kem u suri.' U, ba u nang mut ka kren shisha u la ap dngong bad u la pyrjah, u da tharai ba un sa ioh bam kdang hun la shibit. Ynda la shiphang ita i khynnah khynnah i la en, bad ka kmie ka la khroh la kjor pat ia i ka ong, 'Lada wan u suri mynta ngan pduh haba unda khein ka shhep.' Hangta u suri u la jew sew bad u la leit wan tuin sha la krem u da ong artad, 'Kumne kein haba sngap ia ka kynthei kaba kren da kumwei bad kaba mut da kumwei pat.'

(b) U Pluto u la ai kylliang ha U Perseus ia ka jingphongkhlich ba phylla jong u kaba pynlong ia u nongphong ban ym iohi da kiwei, Ka Minerba ka la ai ia ka stieh jong ka kaba phyrni kum ka ksiar, bad ka phyrnai haduh katta katta katta kat a shu shat ia kiei kiei kum ha ka iit; bad U Merkuri hi ruh u la ai ia ka waitlam kdor kaba nep bad ia ki juti thapniang da kiba U Perseus u lah ban her kham sted ban ia ka sim kaba stet tam.

Kaba U Perseus mynta u la dei ban leh ka long tang ban shem ia ka lynti sha ka ing dewlynnong jong U Medusa, bad ki briew ha ka pyrthei baroh kibatip ia kata ki long tang ki laingut shipara kynthei kiba la shong lang hapoh ka krem.

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TRANSLATION FROM LUSHAI INTO ENGLISH

Paper-Setter-Rev. E. L. Mendus, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into English of your own composition:—

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- (a) Tin, Hrilfiahtua chuan pindan bâltak Phiah fai ngai hleih lohab hian a kai lût a. Chu mi pindan chu rei fê a en hnuin Hrilfiahtua chuan a phiat turin mi a ko va. Chumi chuan a han phiat a. bawlhlawh chu a leng chum chum mai a. Kristiana chuan a hâk ta nual mai a. Tin. Hrilfiahtua chuan a kianga nula ding hnenah chuan. 'Tui han la la, pindan hi theh rawh 'a ti a: tin, nula chuan tui a theh hnu chuan an han phiat leh a, awltakin a fai thei ta a. Chutichuan Kristiana chuan 'Hei engtihnange ni le?' a ti a. Hrilfiahtua chuan, 'Hemi pindan hi mihring rilru Chan hin Thain a tithi-anghlim ngai loh ang a ni a, bawlhlawh chu mihring pianpui leh rilru sual mi a pum a a tihbawlhblawh a ni. Tin, a han phiat tantu chu dân ang a ni a; tin, nula tui a rawn thehtu chu Chanchin Tha ang a ni.
- (b) Tin, zing chu a lo ni a, a hnung lam chu a ban bawi a : nimahsela kir leh duh a hawi a ni lo va, hlaubawm tak tak thim zinga a pelh te chu chhun ên ah hmuh a duh avang a ni zawk.

Chutichuan kawng sira khuar-khurum leh a lehlam panga chirh diak hmun chu fiahtakin a hmu a, a inkar zimzia te pawh chu a hmu vek a. Tin phùngte leh rülte pawh kha a hmu vek a nimah-ela hlatakah an awm vek a, khawvar hnu chuan an hnaiah an lokal lo va. nimah-ela anmahni chu a hmu thei vek a. 'Thima thil harsa te chu a hmu chuak a, thihna hlim chu a tiêng 'tih ziak angin.

(c) Chutichuan an kal zêl a, Tlângnuam an va thleng a; chu tlâng chu tun hmaa kan sawi tawh ram neitu Lal kan tih ta kha a ni. Chutichuan huan te leh thei hmun te, greip huante leh tuikhur te en turm chu tlângah chuan an han lâwn chho va; chuta tuite chu an in a, an inbual bawk a.

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Greip rahte pawh chu an duh tawk in an ei a. Tin, chumi tlàng chhipah chuan beramyêngtute an beram yêngin kawng sirah chuan an ding hlawm a. Chuti huan Kristiana leh Beiseia chu an binenah chuan an han kal a, an tiang rin chhan in an han ding a; 'Hei hi tu tlâng nge ni?' In beram yên hi tu ta nge ni?' tiin an han zawt a. Berampute chuan. 'He tlâng hi Imanuela ram a ni 'an ti a.

TRANSLATION FROM GARO INTO ENGLISH

Paper-Setter-Mr. F. W. HARDING.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following three passages:-

- (a) Indiba naa, Israel, angni nokol, angni see raginin Jakob, angni ripeng Abrahamni deritchu, anga nangko aani kuchotrangoniko rimaha, aro uni kitikrangoniko okamaha, aro nangna agane maha, Naa angni nokol onga, anga nangko ste raaha, aro nangko galkuja; daken, maina anga nang baksa gnang; kengoknabe, maina anga nangi Isol angni nokol onga, anga nangko see raaha, aro nangko galkuja; daken, maina anga nang baksa gnang; kengoknabe, maina anga nangni Isol pilak kaonang-giparang kratchaatako aro jajaatako mangen; nang baksa gisigrikgiparang mamung gri gita onggen, aro gimagen. Naa uamangko, chongmotan, nang baksa itegrikgiparangko amgen, indiba uamangko, nikjawa; nangko dakgrikgiparang mamung gri gita, aro bangbanggipa gita onggen. Maina anga, Jihova nangni Isol, nangni jakrako rime mangna agangen, Daken; anga nangko dakchakgen.
 Daken naa jong Jakob aro nasimang Israelni manderang; anga nangko dakchakgen, aro nangko l'iokgipa Israelni Rongtalgipa onga me Jihova agana.
- (b) Aro ua atamona kingking abao kolamaha, aro uni kolamgiminko doke nakaha, aro ua job mi ephasamang ongachim. Aro ua uko detome songjinmaona rebaha; aro uni niotang uni kolamgiminko nikaha, aro ua antangni okkamano gitehagiminko bikote una onaha. Aro uni niotang una aganaha, Naa daalo baoniko kolamaha? Aro naa bao kam kaaha? Nangna simsakgipa patiako manchina. Unon ua san baksa kam kaaha uko uni niotangna agane inaha. Jen baksa anga daalo kam kaaha ua mandeni bimung Boaz. Aro Naomi um namehiktangna aganaha. Tangenggipana aro stanggiminrangna antang watgijagipa, Jihovani patiako uan manchina. Aro Naomi una aganaha, Ua mande anchingni sepanggipa bak, anchingko naljokna amgipa saksa onga. Aro Moabni mechik Ruth aganaha, Ua angna aganaha aganaha, Angni pilak mi raaniko bonjaskal, angni panterang baksa dongrimpabo. Aro Naomi uni namehiktang Ruthna aganaha. Gipin abao nangko grongjana gita uni metrarang baksa rtongkatangan nama, ang de. Indake job mi raaniko aro gom mi raaniko bonkujana kingking ua kolamna Boazni metrarang baksa dongrimpaaha; aro ua niotang baksa dongaha.
- (c) Chengon agilsako rokomsa mande dongachim. Uamanga bangani giminar daororoni bisarang gita ongachim. Uamang sena aro poraina uikujachim; gisikni chanchiako chuonge parakna uamangni nanga gita kusik grichim. Uamang songna changjachim. Bite aro jadilrangko gitang chae janggi tangachim. Nasimang gita uamangni gana chinani grichim, matbigilni gananiko gane uamang kratchaaniko pindapachim, aro uamang uarangko kona changjachim. Daororo anchingni namnambegipa nokrangko rikna changjachim. Uni gimin uamanga beben bisa chongiparang gita uigjjagiparang ongachim. Indiba

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namanga maiao dongachim? Mitama makrerang gita bolrango dongachim, mitama abrim rongkolrango dongachim. Sinkari aro dingkarirango haida uamang baditan dukko manaha, sinani gimin uamang waal sikna manjachim, dongtogija onge dongachim. Aro rongkolni kumangona sal teng-ujana king king beeno matbigilko bilome dongachim. Daororo an hinga bajalo badita rokom chaani bosturangko manna ama, indiba unode indake bajalba grichim; chaani bosturangko matburungrangko sikar kaachim. Gi-ep gisep selu hi natokko suachim. Been gitangan uamangin mong-onggipa chaani ongachim. Roongko tongsa pegake goolni kuchoto chate bia dakachim. Ia pilak biani kuchoto chatanirangko banga biaprangomkon akolko choe manaha, aro indake donga bosturangchin anchinga skangni salni manderangni obostani gimin uina mana.

TRANSLATION FROM MALAYALAM INTO ENGLISH.

Paper-Setter—Rao Bahadur L. K. Ananthakrishna Aiyer, B.A., L.T.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following passages:-

(a) കോയമ്പത്തുർ മലകളിൽ ഒരു കൂട്ടരണ്ട്. അവർ 20 തങ്ങൽ ഇരുള്ള രാണെന്ന പറയും. സാമാന്വം എന്ത എറച്ചിയും തിന്നും. പശ്രം, പൂച്ച, തവള്, കരടി വെള്ള കുരങ്ങൻ ഇതിനെ തിന്നുകയില്ല. ജാതികൂട്ടം തിക്കാൻ തലവൻ ഉണ്ട. അവന്ന പേർ യജമാനൻ എന്നാകുന്നു. അവന്ന സഹായിപ്പാൻ ഒരു കോല്ലാ രന്നും വേറെരണ്ടാളും ഉണ്ട. ഭത്താവോടു കുടി ഇരിപ്പാൻ കുട്ടാക്കാര്ത സ്ത്രീക്ക ശിക്ഷ ബഹുരസമുണ്ടു.

- (ർ) ഘടയൻ കല്വാണം ചെയ്താൽ ഭായ്യയുടെ 20 ഗോത്രമായി. അച്ഛൻറെ മുതലിന്നല്ല അവകാശം. ചിലുവകക്കാക്ക് വിധവാ വിവാഹം ധാരാളം നട പ്പുണ്ട. മധുരജില്ലയിൽ പുതുനാട ഘടയരിൽ അച്ഛൻറെ മരുമകളെ കേട്ടാൻ അവകാശമുണ്ട. പുരുക്കുന്നപെണ്ണി . നെക്കാഗം നന്നെപ്രായം കുറയുന്ന പക്ഷം അവൻറെ ഭാഗത്തനിന്ന വേറെ വല്ലവനും കെട്ടാം. താലികെട്ടു ന്നത മണവാളൻറെ സോദരിയാണു.
- (ു). ഒട്ടർ തെലുങ്കരാണ. പണം ഉണ്ടെങ്കിൽ 20 അത ഒടുണ്ടുന്നവരെ മദ്വം സേവിക്കാം എഴുത്തറിയു ന്നവരില്ല. കുളംകിണറ കുഴിക്കുക ചിറമാടുക ഈ പകയാണ പണി. എത്ര പണി എടുത്തു എന്നകണക്കു. കൂട്ടാൻ പോലും അറിഞ്ഞുകടാ. സാമാന്വ്യം എന്താം തിന്നും. ഭായ്പയെ ഉപേക്ഷിക്ക ധാരളമാണ. ഒരു തരിക്ക ഒരോരുത്തനായി പരിനെട്ടു ഭത്താക്കുന്മാരോള ആവാം പുരുക്കുന്ന ഈ അതിരും ഇല്ല. ഇതുവായാൽ ഏഴ മിവസം അശുദ്ധിയുണ്ടു, പേറെ ഒരു പുരയിൽ ഇരിക്കുണം. ആകാലം മാംസം വാടില്ല, മുട്ട തിന്നാം. എഴും മുവസം ഒരു കോഴിയെ പെണ്ണന ഒഴിഞ്ഞ വലിച്ചെറിയും.

TRANSLATION FROM TAMIL INTO ENGLISH.

Paper-Setters—

{ RAO BAHADUR L. K. ANANTHAKRISHNA AIYER, B.A., L.T. MAHAMAHOPADHYAY VEDANTAVISARAD ANANTAKRISHNA SASTRI.

('andidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following passages:-

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- (க) பரதர் பாத்துவாசருடைய ஆச்சிரமத்தில் நங்கு உதாகத் தீர்மா னம் செய்கிற விருந்தை கீர் அச்சேகரிக்கவேண்டும் என்குர். பரதர் மஹானுபாவரே! முன்னமே எனக்கு விருந்து செய்தாயிற்று. அர்க்கியம் பாத்தியம் ஆசமனியம் முதலியன செடுத்து உபசுரித்திரே? இதை விட வனததில் என்ன இருக்கிறது என்குர். பாரத்துவாஜர் பார்த்தாரே!
- (b) கீர் கரய்கணிகள் முதலிய எந்த பொருள்களாலும் இருப் 20 புதி யடவிர் என்பது எனக்கு தெரியும் ஆயினும் கான் உமது சேனே களுக்கு விருந்து செய்ய விரும்புகிறேன். ஆகையால் கீர் விருபத்தை சிறைவேற்றவேண்டும் உம்முடைய சேனேகளேத் தூத்திலேயே கிறுத்தி விட்டு கீர் மாததி என் தனித்து வந்தீர் என்ருர். பரிவர்ரங்க ளேயுடைய கீ உன்சேணேகளுடன் என் வரக்குடாது ? என்று கே ட்டார்.
- (c) பாதர் மஹானுபாவரே கான் உமக்குப் பயக்கே என் சே 20 வேகளே தூத்திலே விட்டு வர்தேன். அரசர்களும் அரசர்குமார்க ளும் முனிவர்களுடைய ஆச்சிரமத்தை அணுகாமல் ஜாக்கிரன்தயா விருக்க வேண்டும். குதிரைகள், மனிதர்கள் மதங் கொண்ட சிறக்த யாவேகள் எராளமாக என்னே தொடர்க்கு வக்திருக்கின்றன, அவை. கள் இக்த ஆச்சிரமத்திலுள்ள மரங்கள் சுத்த ஜலம், இக்த ஆச்சிரமத் துக்குறிய குடிசைகள் முதலியவற்றுக்கு இடையூற உண்டாகாத படி சான் தனித்த வக்தேன் என்றுர்.

TRANSLATION FROM TELUGU INTO ENGLISH.

Paper-Setter-Mr. B. RAMACHANDRA RAU, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate any two of the following passages into idiomatic English: --

- (4) ఫార్ఫ్ కాలము నంటుండ దగ కా హుంపరా క్రీ మము చేతిను, విశాస్త్రి 20 ఫిక్ చేశను, గుంగుంటుందు చేతను, రాజశ్యత్రే మండని బ్రామందిన కృష్ణ చేశరాయలు విజయనగరరాజ్యము గేలుచుండెను. ఆ రాజుశమ "రత్పాంబ" యను ముద్దుకూడుడు గలదు, రత్పాంబ, తాను మండ రాజు త్రిక్రికి నీ యొంతమా త్రమును గర్యమునెందక, తల్దండుల యొంటు భయభక్తులు గలిగి, కారు తనకుండి జెప్పించు గుంబిద్యలన్నియు మీగుల క్రిడ్లతో గేర్బెను. కావుగేనే, పదునాలుగు సంవత్సరముల రోడకడు గుంప్లో నున్నను, రత్పాంబ, యా కాలమున గొప్పయింటి కాలలు గేర్యకలనిన విద్యలను, ధర్మములను గేర్బి, తన పుట్టుకచేత గే గాక్ తగానాందర్యము చేతను, బుద్ధీచతురత చేతను, నయసంపద చేతను, దిప్పక్ "మహారాజా పుత్తిక్కిక" యొం యని యండలిచే గనిపించుకొనెను, సాధారణ భాగ్యకుతులక లో రత్పాంబ వృద్ధమగు నాటలయందును, గుంఖములయండును గాలము గడుపక్, యుపరయు క్రములగు విషయములను రాగుకుములయందును.
- (b) ఒఫ్లియాను బెలిపించి రాణిగారు బహుయాదరణ బోగిరి. 20 హాళ్ళం లెటుకే బాంపత్యమునం జౌడినమరి విత్యనభాయడల, పట్టినదయ్యము విడిచినయొడల, రాణిగారికి వివాహామిష్టను. ఆమె లోపాలోఖము

ెట్టున్నడు, క్యాం లెటు తనకు మురిపంపు బిడ్డ్రు. నీళాందర్యవిల ననమే, మాహ్యం లెటు మొక్కా మండగములకుండా గారణమైం ముండను పును. ఆగుపక్షమున, నీళుగుణము లతనిని యథామతికిందిని దింపిన యొడల నాధన్యత యింతయంత యనే రాడు. అని ఒఫీలియాతో ననెను. నాకోరికయు నదియేనమ్హా. అని ఒఫీలియాబడులు. కాని, ఆనతికాల ముననే, హ్యాం లెటు, ఆయు త్రక్షణమునం దలంచునది యా పెంమగాదని తెలిసికోనున్నది. ఒక గృంథమును నౌం నేలంబూని తననియమిత స్థలమున హ్యాం లెటు ప్రవేశించెను. పొలోనియానుక్లాడియా నులు తెఱముఱుంగున నారులు చాకలు చేసికొని డాంగియుండిరి. కొంత నేపువుఱకును,హ్యం లెటు, ఆపెంను గన్నై త్రియైనను జూడ లేదు.

(a) నూజు నంవత్సరముల క్రిందట నీ రెండు గా మములకును 20 గరణ మొక్డే. అక్పటి కరణమను నువ్వలూరి రాజన్న నువ్వలూ రిలో నివనించుచు, పనియున్న ఫుడు మధ్యాహ్నమున నువ్వపల్లె పోయి, రాత్రి కిలు నేరుచుండెను. వేసవికాలములో నొక దినమున రాజన్న నువ్వపల్లెకు వచ్చి, తన యుద్యోగఫుం బనులు చూచుకొని, యెండ తగ్గనండు వలనను, తనకా దారి కొట్టిన పిండియే యుగుటచోతను, ఎప్పటికంటెం గొంచెమాలన్నముగ నింటికి బయలుదేరెను. మీడకటి పడినను వేడిగాడుపులు తగ్గకుండెను. దారిలో సామాన్నముగ నాతని కొవరో సహవానము దారకుచునే యుందురు. ఆ రాత్రి మాత్రి కొవరో సహవానము దారకుచునే యుందురు. ఆ రాత్రి మూత్ర మొవరును తోడులేకుండిరి. అది పైగా సంజచ్యకటిరాత్రి. పింబదియేండ్ల వయాన్ను దాలకినను, దేహపటుత్వము గలిగి, కాయకష్ట మున కోర్చినవాడునుటచే రాజన్న కిట్రి పయన మొక లెక్కొలోనిది గాడు. కానీ యొండత్నక కాతనికీ సాయంకాలనుు శరీరము బల హీనముగుచుండెను. అందువేతనే యూ కోశము దూరము నామడ వలేనలినికిం దారచేసు.

TRANSLATION FROM FRENCH INTO ENGLISH

Paper-Setters— { REV. FR. E. POPULAIRE, S.J. MR. NAGENDRANATH CHANDRA, M.A.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

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- 1. Translate into English any two of the following passages :-
- (a) Victor Hugo avait adressé un exemplaire de ses poésics à un enfant de grenoble; celui-ci écrivit au poète une lettre de remerciement. Cette première lettre resta sans réponse; l'enfant en écrivit une seconde, et reçut, au bout de quelques jours, les lignes suivantes:
- 'Je vous dois depuis bien longtemps une réponse, mon cher petit enfant; mais, voyez-vous, p'ai les yeux bien malades, il faut m'excuser. Les mêdecus me défendent d'écrire; p'obéis aux médecus, comme vous obéissez à votre mère. Il aut obéir toute sa vie, n'oubliez pas cela. Mais vous, qui êtes petit, vous êtes plus heureux que moi, car à votre âge l'obéissance doit être douce; au mien elle est dure quélquefois; vous le voyez, piusqu'on m'a empêché de vous écrire. Adieu, mon petit ann, devenez grand et restez sage.'
- (b) Un Indien ac usait un Espagnol de lui avoir volé son cheval; l'Espagnol prétendait l'avoir élevé, et le juge était embarrassé. Tout à coup, l'Indien ôte son manteau, en couvre la tête du cheval et dit : Puisque cet homme a éleve ce cheval, il doit savoir de quel œil il est borgne.
- L'Espagnol, pour ne pas paraître hésiter, répond immediatement : De l'oul droit.' 'Il a fort,' a outa l'Indien.—' Mais non,' continua l'Espagnol, 'car je voulais dire l'oul à ma droite.'—' Mensonge,' s'écria l'Indien découvrant la tête du cheval, 'car il n'est borgne in de l'un ni de l'autre.' Le juge, convaincu par cette preuve ingenieuse fit remettre le cheval à l'Indien.
- (c) Travaillez, prenez de la penne, car le travail donne un revenu assuré.—Un laboureur, sur le point de mourir, réunit ses enfants autour de lui: 'Quan' je scrai moit,' leur dit-il, 'ne vendez pas le champ que nos aïeux nous ont laissé; un trésor y est caché; je ne sais pas l'endroit, mais, si vous cherchez bien, vous le trouverez sans doute. Remuez la terre aussitôt après la moisson: bê-hez, creusez, touillez, ne laissez nul endroit sans le retourner dans tous les sens.'

Après la mort du père, les fils prirent des bêches et des hoyaux et fouillèrent le champ de tous les côtés. Ils ne trouvèrent point de trésor, mais la terre, si bien remuée, produisit une récolte abondante. Alors les en ants comprirent que le travail était le trésor dont leur père avait parlé.

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TRANSLATION FROM PORTUGUESE INTO ENGLISH

Paper-Setter-Dr. P. D. Braganca Cunha.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any two of the following passages:
- (a) O General Graves, idoso, mas de porte marcial, commandante do exercito do Egipto, ocupara o seu lugar como arbitro no camarote do juiz em frente do pavilhao; quatro esquadroes de cavalaria britanica e egipcia, uma força de infantaria e um corpo de camelos vieram postarse a esquerda, e depois fez a sua entrada no campo o jovem coronel Gordon Lord, ajudante-geral, que devia desempenhar o papel de comandante do simulacro de luta.
- (b) Era o dia aprasado para a recolha dos carneiros em Thingvellir: o redil ficava a umas trinta milhas; nao havia caminho de ferro nem carros, e poucas eram as estradas na Islandia, de sorte que os habitantes, resolvidos a fazerem daquele facto um dia festivo, tinham de sair cedo nos seus cavalos cobertos dum pelo intonso.
- (c) Faze da tua parte, que Deus te ajudara-é uma maxima de valor provado, a qual encerra em mui limitado quadro os resultados da mais larga experiencia. O espirito de espontaneidade individual é a origem de todo 6 desenvolvemento normal no individuo, e quando se manifesta em um grande numero de homens, constitue o verdadeiro fundamento da força e da energia nacional. O apoio que ros vem do exterior e de ordinario tao enervador em seus effeitos, quao invariavelmente fortalecedor e o que nos vem do intimo de nós mesmos. Tudo quanto é feito por outrem em proveito nosso, nos exime da necessidade a até nos tira o desejo de o fazermos com esforco nosso proprio; e onde quer que o individuo se ochar submettido a um excesso de proteçção e de governo, a tenden la inevitavel de um tal systema sera para reduzil-o a um estado de fraqueza relativa.

FIRST PAPER—PART (B)

ESSAYS, GRAMMAR, AND COMPOSITION

Candidates are required to give their answers in their own words

as far as practicable.

The figures in the margin indicate full marks.

- 1. Describe one of the following:-
- (a) A village fair.
- (b) A dramatic performance at which you may have been present.
- (c) Your school.
- 2. Expand one of the following groups of notes into an essay on the topic indicated:—
- (a) Leisure: its necessity—its use and abuse—the way in which you prefer to employ your leisure.

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- (b) Travelling: general remarks on travelling, its pleasure and ntility—different modes of travelling, e.g., on foot, by railway train, by boat—their respective pleasures and inconveniences—any long journey which you may have undertaken.
- 3. Either, Punctuate the following passage, using capitals, wherever necessary:—

Just let go my hand can't you what business had your hand in my pocket replied I angrily I was just feeling for my pocket-handkerchief replied the young man I always keep it in my breeches pocket but not in my neighbours I presume my neighbours replied he with a vacant stare well so it is I see now I thought it was my own I released his hand and pray who are you said I me why I'm a fool more knave than fool I expect replied I much puzzled.

Or, (a) Analyse the following sentence into clauses, stating the nature of each dependent clause and its relation to the clause on which it depends:—

In one of our late excursions into the country, happening to discourse upon the provision that was made for the poor in England, he seemed amazed how any of his countrymen could be so foolishly weak as to relieve occasional objects of charity, when the laws had made such ample provision for their support.

- (b) Parse the italicized words in the above extract.
- 4. (a) The following absurd telegram was once actually sent to the Police. Re-write it so as to make it intelligible and grammatically complete:—

Gray motor-car passed here 11 30 killing one of my heifers containing four men and two of my dogs one of whom was a clergyman.

- (b) Correct four of the following sentences:
 - (i) He has taken admission into the school.
 - (ii) I saw a bad dream last night.
 - (iii) He had hardly gone than his friend came.
 - (iv) Even such a strong man like him could not lift the box.
 - (v) The reason of my silence is due to my illness.
 - (vi) One of his family members is dead.
- 5. Fill up the gaps in either (a) or (b) :--

(a) Give a man a taste—reading and the means—gratifying it, and you place him—contact—the best society—every period—history.

- (b) He had little love—art and poetry, but his shrewdness showed—most—endless talk. He held his own fairly—the wits of his court and bandied repartees—equal terms—them.
- 6. Either, Show how the shifting of the accent in three of the following words affects their meaning:—incense, desert, contract, concert.
- Or, Write sentences to illustrate the meaning of—stationary, stationery; lightning, lightening, eminent, imminent.

SECOND PAPER

Head Examiner-MR. HIRANKUMAR BANERJEE, M.A.

MR. BIPINBIHARI BANERJEE, B.A., B.T.

,, HEMANTAKUMAR MAJUMDAR, B.A.

,, Joseph Arulathum, B.A.

,, JATINDRANATH CHAKRABARTI, M.A.

,, Srischandra Mukherjee, B.A.

., NIRENDRANATH RAYCHAUDHURI, M.A.

., Dhirendranath Mookerjee, M.A.

., Anantaprasad Goswami, M.A.

, Kshirodmohan Chakrabarti, M.A.

., Banabhari Das, M.A., B.T.

., Srischandra Ganguli, M.A.

.. Tahir Jamil. M.A.

., KIRANDHAN CHATTERJEE, M.A.

., Ambikacharan Chakrabarti, M.A.

,, DHARANIDHAR MUKHERJEE, M.A., B.T.

. BISHNUPADA BANERJEE, M.A.

., SURENDRAMOHAN DATTA, M.A., B.T.

, Saurindrakumar Chaudhuri, M.A.

.. Jogeschandra Sinha, M.A.

, Rajkumar Chakrabarti, M.A.

., HRIDAYRANJAN LAHIRI, M.A.

, Внімарада Gnosh, M.A.

., Jyotiprasad Sengupta, M.A.

,, NARENDRANATH BHATTACHARYYA, B.A.

,, Nanibhushan Mukherjee, M.A.

REV. KASINATH BASU. M.A.

Mr. Binodbihari Banerjee, M.A.

,, Amulyaratan Gupta, $M.\Lambda.$

,, Brahmakisor Mukherjee, B.A.

,, Brajendrakumar Sen, M.A.

.. BIBHUTIBHUSHAN BANERJEE, M.A.

,. HARISCHANDRA MUKHERJEE, M.A.

, JOGENDRANATH KANJILAL, M.A.

,, H. C. Claridge, B.A.

Mr. Md. Yusuf, M.A.

MR. NALININATH GHOSH, M.A.

" Praphullakumar Dasgupta, M.A.

,, Pramathanath Chakrabarti, M.A.

,, Janaranjan Lahiri, M.A.

" Sasipada Saha, M.A.

, DIGENDRACHANDRA DATTA, M.A.

,, M. D. GRAY, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, Give in your own words the story of Orpheus.

Examiners-

Or, 'And thus the Treasure Valley became a garden again, and the inheritance, which had been lost by cruelty, was regained by	15
love.' Tell briefly the story of the loss and recovery of the inheritance	
referred to in this sentence.	10
2. Either, Describe the mustering of the Etruscan army by Lars Porsena, and the panic caused by its march.	12
Or, Briefly relate the story of John Gilpin's ride.	12
3. Explain any three of the following passages:-	15
 (a) Now, Roman is to Roman More hateful than a foe, And the Tribunes beard the high, And the Fathers grind the low. 	
(b) Ev'n virtue's self by knaves is made A cloak to carry on the trade; And power (when lodged in their possession)	

- (c) William Grey took up the glove in a style of manly courtesy that would have done honour to a knight in the days of chivalry.
 - (d) He wound us up to be mere machines of pity.

Grows tyranny and rank oppression.

- 4. Explain any four of the following:—storied monuments; the people made a great ado over Apollo; the Martian Kalends; a trainband captain; the Milky Way; joint heirs with Christ.
 - 5. Give the sense of one of the following extracts:— 25

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- (a) Breathes there the man, with soul so dead, Who never to himself hath said.

 'This is my own, my native land!'

 Whose heart hath ne'er within him burn'd, As home his footsteps he hath turn'd, From wandering on a foreign strand?

 If such there breathe, go, mark him well; For him no minstrel raptures swell; High though his titles, proud his name, Boundless his wealth as wish can claim; Despite those titles, power and pelf. The wretch, concentred all in self, Living, shall forfeit fair renown, And, deably dying, shall go down To the vile dust, from whence he sprung, Unwept, unhonoured, and unsung.
- The man of life upright, **(b)** Whose guiltless heart is free From all dishonest deeds, Or thought of vanity: The man whose silent days In harmless joys are spent, Whom hopes cannot delude, Nor sorrow discontent-That man needs neither towers Nor armour for defence, Nor secret vaults to fly From thunder's violence. He only can behold With unaffrighted eves The horrors of the deep And terrors of the skies.

- 6. Give in your own words the substance of one of the following passages:—
- (a) It is not easy at this time to comprehend the impulse given to Europe by the discovery of America. It was not the gradual acquisition of some border territory, a province, or a kingdom, that had been gained, but a new world that was now thrown open to the European. The races of animals, the mineral treasures, the vegetable forms, and the varied aspects of nature, man in the different phases of civilization, filled the mind with entirely new sets of ideas, that changed the habitual current of thought and stimulated it to indefinite conjecture. The eagerness to explore the secrets of the new hemisphere became so active, that the principal cities of Spain were, in a manner, depopulated, as emigrants througed one after another to take their chance upon the deep. It was a world of romance that was thrown open; for whatever might be the luck of the adventurer, his reports on his return were tinged with a colouring of romance that stimulated still higher the sensitive fancies of his countrymen. They listened with attentive ears to tales of Amazons, which seemed to realize the classic legends of antiquity; to stories of Patagonian grants; to flaming pictures of a land of gold where the sands sparkled with gems, and golden pebbles as large as birds' eggs were dragged in nets out of the rivers.
- (b) Money is said to be power, which is, in some cases, true; and the same may be said of knowledge; but superior sobriety, industry, and activity are a still more certain source of power; for without these, knowledge is of little use; and as to the power which money gives, it is that of brute force, it is the power of the buldgeon and the bayonet, and of the bribed press, tongue, and pen. Superior sobriety, industry, activity, though accompanied with but a moderate portion of knowledge, command respect, because they have great and visible influence. The drunken, the lazy, and the inert stand abashed before the sober and the active. Besides, all those whose interests are at stake, prefer, of necessity, those whose exertions produce the greatest and most immediate visible effect. Self-interest is no respecter of persons: it asks not who knows best what ought to be done, but who is most likely to do it: we may, and often do, admire the talents of the lazy and even dissipated men, but we do not trust them with the care of our interests.

MATHEMATICS

COMPULSORY PAPER

Paper-Setters— { Mr. Kaliprasanna Chattoraj, M.A. Rev. A. E. Brown, M.A. Dr. Satischandra Kar, D.Sc.

Head Examiner-Dr. NIKHILRANJAN SEN, D.Sc., Ph.D.

Examiners —

Mrs. Prativa Devi, B.A., B.T.

,, Swarnakumari Raychaudhuri, M.A.

Miss Fazilutaunessa, M.A.

Mrs. Snigdhaprabha Datta, M.A.

Examiners-(Contd.) MR. NAGENDRANATH MAJUMDAR, M.A., B.T. SATISCHANDRA CHAKRABARTI, M.A. MANORANJAN DASGUPTA, M.A. ,, GUNASINDHU SARDAR, M.Sc. KSHETRAMOHAN BASU, M.Sc. BANKIMCHANDRA DAS, M.A. ٠. SARATCHANDRA RUDRA, M.A. ASWINIKUMAR LAHIRI, M.A. Anantamohan Sengupta, M.A. BIBHUTIBHUSHAN SEN. M.Sc. ,, NAGENDRANATH MUKHERJEE, M.Sc. Sailendrakrishna Ghosh, M.A. GURUDAS GUPTA, M.A. Haripada Nag. M.Sc. PRATAPCHANDRA BHATTACHARYYA, M.A. Panchanan Bhattacharyya, M.A. HEMANTAKUMAR ('HAKRABARTI, M.Sc. , , Phaniehushan Mukherjee, M.A. PRAMATHANATH DHUA, M.A. BIMALCHANDRA BHATTACHARYYA, M.Sc. RADHAKANTA DAS. M.Sc. Sureschandra Raychaudhuri, M.A. BASANTAKUMAR SENGUPTA, M.A. Amarnath Pramanik, M.A. Ambikadas Ghosh, M.A. , , TEJENDRANATH DAS, M.Sc. NALINIRANJAN RAY, M.A. SUNITIKUMAR PAL, M.A. , , KAMADANANDA MUKHERJEE, M.A. , , PRAMATHANATH MITRA, M.A. ,, DHIRENDRANATH MOOKERJEE, M.A. OMDATUL ISLAM, M.A. ,, BHOLANATH MUKHERJEE, M.A. (Burdwan Raj College). NIRANJAN DASGUPTA, M.Sc. , , SUSILKUMAR CHATTERJEB, M.Sc. ,, NIRMALCHANDRA MITRA. ,, BALARAM PAL, M.Sc. , , RAJCHANDRA BASU, M.A.

Candidates are required to give their answers in their own words as far as practicable.

HARISADHAN PAL. M.A.

KHAGENDRANATH CHAKRABARTI, M.Sc.

SRISCHANDRA GUPTA, M.A., B.T.

The figures in the margin indicate full marks.

1. (i) Either, 12912 bottles have to be packed into boxes. Each box will hold 269 bottles. How many boxes would be required?

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- Or, What number multiplied by 37 will give the same product as 296 multiplied by 309?
- (ii) Either, Find the greatest number that will divide 5191 and 5854, leaving the remainder 4 in each case.
- Or, Find the least number which being increased by 1 will be exactly divisible by 22, 17, 33, 102.
 - 2. Either, Simplify $\frac{3}{4} \div \frac{1}{4} \cdot \text{of } \frac{5}{4} \div \frac{3}{4} \cdot \text{of } 0^4 3$.
- Or, Express o'725 of Rs. 9.6 as. + 3.9 of Rs. 11. 9 as. in rupees, annas, and pies.
- (ii) Find, by practice or otherwise, the price of 7 mds. 18 srs. 9 chs. at Rs. 6 10 as. 8 p. per maund.
- 3. (i) At what rate per cent. per annum, simple interest, will Rs. 737. 1 a. 9 p. amount to Rs. 825. 9 as. in 3 years?
- (1) A alone can do a piece of work in 12 days, and B alone can do it in 6 days; they work together for 2 days after which B leaves
 In how many days more will A finish the work?
 - 4. Either, (i) Divide $6x^3 + x^2 5x 2$ by 2x + 1
 - (ii) Find the L. C. M of 5

 $3x^2-10x+8$ and $2x^2-3x-2$,

- Or, (i) Resolve into factors: 2+3
 - (1) $4x^2-4x-3$.
 - (2) $a^3 8b^3$.
- (ii) If $x + \frac{1}{x} = 3$, find the value of $x^2 + \frac{1}{x^2}$.
- 5. Either, Samplify 10

 $\frac{b^{2}c^{2}}{(a-b)(a-c)} + \frac{c^{2}a^{2}}{(b-c)(b-a)} + \frac{a^{2}b^{4}}{(c-a)(c-b)}$

Or, If $\frac{b+c}{a} = \frac{c+a}{b} = \frac{a+b}{c'}$, prove that either

a + b + c = 0 or a = b = c.

- 6. Either, Solve the equations: 5+5
 - (i) $\frac{3}{x+1} + \frac{4}{x+2} = \frac{7}{x+3}$;
 - $(ii) \quad 6y x = 1,$

 $\frac{x+y}{x-y} = \frac{3}{2}.$

- Or. The denominator of a fraction exceeds the numerator by 3, and if the numerator be increased by 7, the fraction is increased by unity. Find the fraction.
- 7. Either, (1) If two angles of one triangle are respectively equal to two angles of another, and the side adjacent to the angles in one equal to the side adjacent to the equal angles in the other, prove that the two triangles are equal in all respects.
- (ii) A diagonal of a parallelogram is bisected. and through the point of bisection a straight line is drawn to be terminated by

one pair of opposite sides. Show that the straight line is bisected at the point.	
Or, (i) Prove that any two sides of a triangle are together greater than the third side.	8
(ii) Prove that the difference of any two sides of a triangle is less than the third side.	5
8. Either, (i) Prove the geometrical proposition corresponding to the algebraical formula.	8
$(a+b)^2 = a^2 + b^2 + 2ab$	
(ii) Prove that the square on a straight line is equal to four times the square on half the line.	5
Or, (i) Draw two tangents to a circle from an external	٠8
(ii) A quadrilateral is described touching a circle. Prove that the sum of any pair of opposite sides is equal to the sum of the other pair.	5
9. (i) Construct a triangle, given the base, one side, and	7
the area. (ii) Draw the graphs of	7
7x-2y=14 and $x+2y=2$, and hence find the co-ordinates of their point of intersection.	

Additional Paper.

Head Examiner-Mr. Kaliprasanna Chattoraj, M.A.

Examiners—	Mr. Manomohan Raychaudhuri, M.A. 'Bholanath Mukherjee, M.A. , Lalitkumar Ray, M.A. , Amritalal Chatterjee, M.A. , Abanikanta Lahiri, M.A. , Khageschandra Bose, M.A. , Brajendralal Siromani, M.A. , Surendranath Chatterjee, M.A. , Prabhaschandra Ganguli, M.Sc. , Nrifendranath Ghosh, M.Sc. , A. S. Siddiqi, M.A. , Narendrakumar Karfarma, M.Sc. , Praphullakumar Sarkar, M.Sc. , Indubhushan Mukherjee, M.Sc. , Sukumarranjan Dasgupta, M.Sc. , Amritalal Ghosh, M.A. , Manindramohan Deb, M.A. , Charuchandra Mukherjee, M.Sc. , J. C. Hensman, M.A., A.I.C., F.C.S. , Nikhilnarayan Prachanda, M.Sc.
	,, Manindramohan Deb, M.A. ,, Charuchandra Mukherjee, M.Sc. ,, J. C. Hensman, M.A., A.I.C., F.C.S. ,, Nikhilnarayan Prachanda, M.Sc.
	,, PRABHASCHANDRA BHATTACHARYYA, M.A. MAULVI ABDUL KARIM MONDAL, M.A. MR. UMESCHANDRA HALDAR, M.A.
,	,, Surendranath Das, M.A

10

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Examiners— | Mr. Mohinimohan Das, B.A., B.T. | ,, Radhakisor Ghosh, M.Sc. | ,, Prabodhchandra Ganguli, M.Sc., B.T. | ,, Santanukumar Mukherjee, M.Sc.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, Find the square root of 0.01117249. 10
Or, Find the value of 10

$$1 + \frac{1}{2} \cdot \frac{1}{9} + \frac{1}{3} \cdot \left(\frac{1}{9}\right)^3 + \frac{1}{5} \cdot \left(\frac{1}{9}\right)^5 + \frac{1}{7} \cdot \left(\frac{1}{9}\right)^7 + \dots$$

correct to four places of decimals.

2. Either, The monthly expenditure of a family of 40 persons on rice is Rs. 177. 8as.. when it is selling at Rs. 4. 7 as. per maund. Calculate what this expenditure will be in the case of 50 persons, when rice sells at Rs. 4. 13 as. per maund, supposing the quantity of it per head is raised by one-fourth.

Or, A manufacturer sells goods to a dealer, and the latter to his customers, each at the same rate of profit, viz. 10 per cent. How much does a customer pay above the original cost of goods purchased by him for £605?

3. Either, (i) Prove that $(ab) = a^b$, when n is a positive integer.

r.
(ii) Find the simplest value of

$$\left(\frac{a^{l}}{b^{n}}\right)^{n} \cdot \left(\frac{b^{n}}{c^{l}}\right)^{m}, \left(\frac{c^{m}}{a^{n}}\right)^{l}$$

Or. Solve:

(i)
$$\frac{2x+1}{x+1} = \frac{x+8}{x+4}$$
; (ii) $\frac{x}{3} + \frac{3}{x} = 4\frac{1}{5}$;

(iii)
$$x^4 + \frac{36}{x^2} = 13$$
.

4. (i) Find the sum of

$$a + ar + ar^2 + ar^3 + \dots$$
 to n terms.

(ii) Either, Exhibit 0.7 as an infinite geometrical series, and 3+4 thence find its simplest value as a vulgar fraction.

Or, In the following groups of terms enclosed within brackets, 3+4 find the value of the nth group and the sum of the first n groups:

$$(1) + (1+3) + (1+3+3^2) + (1+3+3^2+3^3) + \dots$$

5. Either, Join successively the points (2, 0), (4, 3), (2, 5), 6+8 (0, 2), and (2, 0), and calculate the area of the quadrilateral so formed

[Take each of the smallest equal lengths on the graph paper as the unit of length, and each of the smallest squares as the unit of area.]

or, Draw the graphs of 8+3+3

$$y^2 + x = 0$$
 and $y + x = 0$,

and find the co-ordinates of their points of intersection from the diagram.

6. Either, (i) D is the middle point of the side BC of a triangle ABC. Prove that	8
$AB^{2} + AC^{2} = 2AD^{6} + 2BD^{2}$.	
(ii) Prove that the sum of the squares on the four sides of a	5
parallelogram is equal to the sum of the squares on the diagonals. Or. Draw a common tangent to two given circles, and justify your	8
construction.	
How many common tangents may be drawn when the circles cut one another, and how many to non-intersecting circles?	2+2
When is no common tangent possible?	1
7. Either, Prove that equiangular triangles are similar. ABC is a triangle right-angled at A, and AD is drawn perpendi-	1 8 5
cular to BC . If $AB=5$ cm., and $AC=12$ cm., find BD and CD . Or, Prove that similar triangles are to one another in the dupli-	8
cate ratio of their homologous sides.	
Equilateral triangles are described on the sides of a right-angled triangle. Prove that the area of the triangle on the hypotenuse is	5
equal to the sum of the areas of the other two triangles. 8. Prove that the locus of a point from which tangents drawn	8
to two given circles are equal is a straight line. If A and B are the centres of the circles, and P the point where	6
the above locus intersects AB , find PA and PB , being given that $AB=10$ cm. and the radii of the circles 5 cm. and 3 cm. respectively.	v

SANSKRIT

COMPULSORY PAPER.

Paper-Setters- PROF. D. R. BHANDARKAR, M.A., Ph.D. MR. HARIHAR BANERJEE, M.A. PROF. S. N. DASGUPTA.

Head Examiner-MR. HARIHAR BANERJEE, M.A.

MR. BIJAYMOHAN BHATTACHARYYA, M.A.

,, PRABODHCHANDRA BHATTACHARYYA, M.A.

,, HARIDAS BHATTACHARYYA, M.A.

,, JATINDRAMOHAN GHOSH, M.A.

,, DINESCHANDRA MAJUMDAR, M.A.

,, PRIYANATH VIDYABHUSHAN, M.A.

,, HARIDAS SENGUPTA, M.A.

,, MAHENDRANATH BHATTACHARYYA, M.A.

,, DINATARAN LAHIRI, M.A.

,, PURNACHANDRA BHATTACHARYYA, M.A.

,, KALIDAS CHAUDHURI, M.A.

,, PRAMATHANATH KUNDU, M.A.

,, ATULCHANDRA GARAI, M.A.

,, RASAMAY BHATTACHARYYA, M.A.

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,, SUDHIRCHANDRA CHATTERJEE, M.A.

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Mr. Priyaranjan Sen, M.A.

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PANDIT DHARANIDHAR SHARMA, B.A.
SRIMATI NALINIBALA DEY, M.A.

(Looked over answer-papers written in Telugu character.)

MAHAMAHOPADHYAY VEDANTABISARAD ANANTAKRISHNA SASTRI.

(Looked over answer-papers written in Marathi character.)
MAHAMAHOPADHYAY PANDIT SITARAM SASTRI.

(Looked over answer-papers written in Malayalam character.)
MM. Anantakrishna Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English (i) and any four of the following: $-5 \times 5 = 25$
- (a) त्रव च मह्त्तां वृत्तिं भुञ्जानानां पिष्डितानां पञ्चशती तिष्ठति, ततो यथा मनीरथा: सिष्ठिं यान्ति, तथानशीयतामिति।
- (b) भय ज्वलति तिसान् शमीकोटरेऽबंदग्धशरीर: स्कृटितेचण: कर्षणं परिदेवयम् पापवृद्धि-पिता निस्नामः
- (c) कच्छपो वदति—युवाभ्यां चञ्चधतं काष्ठखण्डमिकं मया मुखेनावलम्बितव्यम्, चतो भवतो पचवलेन मयापि सुखेन गन्तव्यम ।
- (d) श्रष्ठो ! निर्वात-नीडगर्भावस्थिता: सुखिन: पिष्णिऽकान् निन्दन्ति, तङ्गवतु तावद इष्टेरपञ्चन: ।
- (e) राजानं प्राष्ठ दैवजः—राजन् ! भोजस्य भाग्यीदयं वक्तुं विरिश्चिरिय नासम्, कोऽइसदरश्वरित्राद्ययः।

- (f) राजापि तेन वाक्येन पीयृषपूरसात स्व, परब्रह्मणि लीन इव, लोचनाभ्यां इर्जायृणि सुमीच।
- (g) जुमारे सुप्तांत्यिने तत्पितरो परा प्रीतिमासादितवन्ती, सव्य बन्धुवर्गास इधिता बसूब: (
- (h) यृयं विद्याभ्यामं कृषत, तदा सर्व्वमुख भविष्यति। तत् ऋता ते भविष्यति। तत् ऋता ते
- (i) विदितलोकापवादवत्तान्तस्य भगवान् सयटुसेन्यपरिवारः प्रसेनास्वपदवी-मनुससार।

Account for शानच् in सुञ्जानानां in (a), and expound the samāsas in 1+3+1 विदितलोकापबादहत्ताना; in (i). Give the form which परित्यन्य in (h) will +1+11 ake if परि is elided. Give an alternate form of पितरो in (g). Decline 1+11 the base in परमञ्जाण in (f) in the first case ending (प्रथमा). Derive =9 स्टरकार in (e) and इधिता in (g):—

- 2. Explain in English with reference to the context (a) or (b) 5×2 and (e) or (f):—
 - (a) ननु नामाविनीतानां विनेतासि परन्तप।

 कथनेवंविधं पापं न र्लंशाधि हि रावणम्॥
 - (b) भुञ्जाना मानुषान् भोगान् दिव्यां व वरवर्षिनि । न सारिष्यसि रामस्य मानुशस्य गतायषः॥
 - (c) उक्तमाबितु वचने तथा स खगजीवन:।
 व्यसु: पपात मेदिन्यामग्रिद्स्थ इव दुम:॥
 - (d) मां चेदिच्छिम् जीवन्तों मातः सत्यं ब्रवीमि ते। नरवीरस्य वैतस्य नलस्यानयने यतः॥
 - (e) किन्तु पूर्व्वमितो गला मम पित्रोनिवेदय। त्या: प्रमाणीक्रतयो: सिध्यत्येतत्तविधितम्॥
 - (f) कन्या मलयवत्याख्या म्बसा मेऽस्ति कनीयसी। तामइंते प्रयक्तामिः, मर्मक्तां मान्यया अध्याः॥

Give the prose order of (c). Account for the case-ending in $\stackrel{?}{d}$ 4+1 in (d). Do you find any grammatical anomaly in the use of $\stackrel{?}{d}$ 7 in (d)? +1=6

- · 3. (a) Substitute one word for any two of the underlined portions:—
 - (1) शब्दं कुर्व्वाणासी ग्रहम् गतवन्तः।
 - (ii) एते नीडा चचाभिनिंचिंता:।
 - (iii) भाष स महति भरखी प्रस्थित:।
 - (iv) पिचणां मेलनं क्रांता गत:।
 - .(b) Use a derivative word for two of the underlined portions:—
 - (i) जगदिइं जलेन स्थाप्तमासीत्।

(ii) सवर्णस्य विकारीऽयं घटः।

(iii) स हि तर्क वेशित।

- 4. Form adjectives from the roots or bases (as the case may be) of the underlined nouns, and form nouns from the roots of the underlined adjectives. (Attempt only three):-
 - (a) तच स मिहिन निहतं सगमेकं ददशैं।
 - (b) रवावतो नाम काचित नगरी आसीत।
 - (c) अधुना पलायनमपि अयुक्तम्।
 - (त) चौर्ण तस्य धनस्य अपहरणम क्रातम।
 - (e) कार्लन स हडोऽभवत।
 - (f) अण्डानि से नष्टानि।
 - (9) कुपित: स: अन्यम गत:।
 - (h) परार्थे जीवनमाप उतस्जीत।
 - 5. (a) Change the voice of either (i) or (ii) :-
 - (i) विप्रेणोक्तम नायं श्वा, यज्ञच्छागोऽयम ।
 - (ii) स राजीवाच, त्या क्रन्टमानुसरणम क्रियताम ।
 - (b) Disjorn the sandhi either of (i) or (ii) :-
 - (i) तच्छ्रत्वा विश्वेषात्तम् काऽयं दितीय:।
 - (ii) एतक ता स व्यात्र: सब्यथोऽचिनाधन्।
 - 6. (a) Give the खड़ tirst person of आहु; or खीटू second person of 14 अस् (to be); or लट् third person of दा (in आत्मनेपद).
- (b) Decline the base असद in the fifth case-ending or सर्व (in 14 feminine) in the sixth case-ending.
 - 7. Correct either (a) and (c) or (b) and (d):—
 - (a) अस्य परिवायत् मां अस्यात विपदात्।
 - (b) सभावको राम: सर्व्वान् मातृन् प्रणला वनाय प्रतस्थी।
 - (c) कदापि मिर्था मा वद, सत्यं हि सतताया निदानम्।
 - (d) अही । धिक् मद्यमन्यायाचरण कुर्व्यतो ।
 - 8. Translate any five of the following into Sanskrit:-
- (a) Having collected some flowers from the garden for worship he at once set out.
- (b) There lived in old time a great king who founded for his
- glory a great temple.

 (c) While he was practising penance there, a demon appeared before him all of a sudden.
- (d) So a wise man wishing his own welfare should place no confidence in a wicked person.
- (e) Then I and my relations came out hearing the cries, and I found the lady in an unconscious state.
- (f) Then he prostrated himself at the feet of the hermit and began to appease him.

(g) So the three brothers fell to quarrelling with one another and

went immediately to the court.

(h) In course of time his fame reached the ears of the king and

the king often invited him.

ADDITIONAL PAPER.

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Examiners

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Narrate in English either the story of जीमूतवाहन or the story 10 of धर्माबिंड and पापबिंड.
 - 2. Translate any two of the following verses into English: $5 \times 2 = 10$
 - (a) यदन्तरं काखनसीसलोइयोर्यटन्तरं चन्दनवारिपङ्यो:। यदन्तर इसिविङालयोर्धने तदन्तरं टाग्नरथेस्ववैव च ॥
 - (b) लं चापि रतं नारीणां नरेषु च नलो वर:। विशिष्टाया विशिष्ट न सङ्गमो गुणवान भवेत॥
 - (c) जानामि तात! यद भावा भवेऽिकान् चणभङ्गुराः। स्थिरं तु महतामेकामाकल्पममलं यशः॥
 - 3. Translate into English any three of the following extracts:— 10×3 =30
 - (a) विद्वस्तं च मृपलं च नैव तृत्यं कदाचन । खर्देशे पूज्यते राजा विद्वान् सर्व्यं यूज्यते ॥ वरमेको गुणी पुत्रो न च मूर्खंश्रतैरिप । एकश्रन्द्रसमो इन्ति न च तारागणैरिप ॥
- (b) चिस्ति तदरखे कपूँरितलको नाम इसी। तमवलीका सर्के प्रगाला-यिन्तर्थान स्मा। यदायं केनाप्यपियेन सियत तदास्माकमेतद्दे हेन मासचतुष्टयस्य भोजनं भविष्यति। तसेकेन प्रगालेन चिन्तितम् मया बुद्धिप्रभावादस्य मरणं साधियतस्यम्।
- (c) श्रक्ति वाराणस्यां कपूँरपटो नाम रजकः। स चैकदा निर्भैरं प्रसुप्तः। तदनन्तरं द्रव्याणि इर्नुं तद्गृष्टं चौरः प्रविष्टः। तं चौरमवलोक्य प्राक्ष्णे उपविष्टः गर्दं भः रजकम्य श्वानमाइ—सखे भवतस्वावदयं व्यापारः।
- (d) खामिन् ! समस्तवनं धान्वा समागता वयम् । परं न किश्चित् सञ्चन् मासादितम् । तत् किं कुर्यो वयम् ? साम्प्रतं बुभुचया पदमिकमपि प्रचित्ततुं न शक्ताः । तदः 'यदि दैवादेशो भवति तदा कस्यापि अनुचरस्य मासीन पष्यक्रिया क्रियते ।
- (॰) ऋही ! किसीतत्ं? महता कष्टेनीपार्ज्ञितं वित्तं देखया कापि गतम्। तद्मथ्यमः ऋकिञ्चनः कथं में सुखं दर्भयायामि ? इति निश्चित्य शोकाकुलिचतः रम्योपवनं तटेव पत्तनं गतः।
- () चय मकरी प्राष्ट—लया कदाचिदपि मम वचनं नाम्यया क्रतम्। यदि तस्य वानरस्य इदयं न भचयामि तदा प्रायोपविद्यानं छत्वा प्राचान् त्यस्यामि। एवं तस्य निद्ययं ज्ञाला, वितं करीमि कथं स मे वध्यो भवति, इति चिन्तयन् वानरपार्श्वम् चन्तरा

4. (a) Form a sentence to show the use of the root क्रम in आत्मनेपद	3
in the active voice.	
(b) What is a समादानकारक? How do you distinguish between	3
	Ü
the two senses in the use of the root दा in विष्राय गां ददाति and रजनस्य	
वस्त्रं ददाति ?	
(c) What is called a दिगुससास ? Form a sentence to illustrate	3
its usc.	
(d) What is an अव्ययीभावसमास ? Form a sentence to illustrate	3
its use.	
(e) What is a বাদখার ? Form a sentence to illustrate its use.	3
5. Re-write the following correctly:—	10
नम: इरिम्। श्रीपत्या तेन प्रथीवि रचितम्। इरिभन्नां धनं देहि। वधूना	
प्रियासिखसिक्कितम्। सत् मां क्रध्यति, श्रहन्तु तथी नाभिक्षुध्यामि।	
6. Translate any five of the following passages into Sanskrit:-	25
(a) The sons of Dhritarashtra gambled with the sons of Pandu	
and deprived them of all their wealth.	
(b) Then said Yudhishthira to them, You should not follow us,	
we are now without wealth and cannot give you food.'	
(c) If I were at Hastinapur, I should say to Dhritarashtra that it was not proper to deprive the Pandavas of their wealth.	
(d) How many times in the day dost thou milk cows?	
(e) Those who thoughtlessly kill animals never enjoy happiness.	
(f) The Mauryvas ruled the earth after the Nandas for a long	
period. (g) I kept my money in that house that the king's men might not	
take it.	

PALI

Head Examiner-Dr. Benimadhab Barua, M.A., D.Lit.

Examiners—

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,, Mahendrakumar Ghosh, M.A.
.. Hirendralal Sengupta, M.A.
Pandit Amulyacharan Vidyabhushan.
Mr. Lalitkumar Barua, M.A.

COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

What do you understand by Jātaka and Bodhisatta?
 Relate the Jātaka which was told in connexion with "Passa saddhāya sīlassā' ti."

2

3. Translate any three of the following:-15 (a) So mahantena parivārena vaddhanto soļasavassakāle yeva niyyāmakasippe nipphattim patva aparabhage pitu accayena niyyamakajetthako hutvā niyyāmakakammam akāsi, pandito nāņasampanno ahosi, tena ārūļbanāvāya vyāpatti nāma natthi (b) Atha nam aparabhäge pitari kālakate mātā kutumbam vicārentī āha: "tāta, tayā dullabhamanussasattam laddham, dānam debi, sīlam rakkha, uposathakau mam kara, dhammam sunahiti (c) Ettakā pathavīpālā Bodhisattakule vuttā Anicca vota samkhara uppadavayadhammino Uppajjitvā nirujjhanti, tesam vupasamo sukhoti. (d) Viseso pancehi vassehi Bimbisarassa Gotamo Paññāsañca dve vassāņi rajjam kāresi khattiyo, Sattatimsampi vassani sahabuddhehi karayi. 9 Write notes on—satta bojjhangā, ariyo atthangiko dasa sikkhāpadāni. 5. Either, What are the acts of welfare as told in the Mangala-10 sutta? Or, How would you cultivate the feeling of love towards all beings? 6. (a) Analyse the sandhis in any two of the following:—ekannāma, tyatthu, dhiratthu, (b) Analyse the samāsas in any two of the following:—nāmarūpam, ruddadassano, piţthipāsāņe. (c) Decline bhagavā, bhikkhu, and nadī in accusative, instrumental, and locative cases, singular and plural. (d) Conjugate the roots of dadāti, karoti, and gacchati in aorist past tense. 7. Correct the errors in any three of the following, giving reasons for your answer :--(a) Kassa kāraņe maņi pahāyitvā gamitum icchesi. (b) Satam santhavam kubbitha, esa vacanam tvam na saddheyyāti. (c) Mama vinā ko aparo gati tumhesu vattati.
 (d) Pitā pana attānam putte vibheti n'ettha thānam vijjati. 25 Translate into Pāli any four of the following:-(a) He said thus: "I shall go to your house and tell your mother that you are well." (b) You are our friends and benefactors. You have done immense good to the country.

(c) Cultivate the feeling of love towards all beings. Let all men

be happy. Let there be peace.

(d) Do not bear ill will towards any. Be friendly to all as a

mother to her only child.

(c) It is by restraint that independence can be earned. Do not increase your desire if you want contentment.

Additional Paper.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. (a) Translate into English any two of the following extracts:—

Tassa sāventassa dve sāvanā adhivāsetvā tatīyasāvanāya eko kāko thāya "uttittha tāva, etassa imasmim rājābbisekakāle evarūpam mukham kuddhassa pana kidisam bhavissati, imina hi kuddhena olokita mayam tattakapāle pakkhittatilā viya tattha tatth'eva bhijjissāma."

- (ii) Atha nam sattaratanavicitte panjare thapetvā macchamamsaphalāphalehi c'eva madhulājasakkharāpānakādihi ca paţijaggiṃsu Mayūrarājā lābhaggayasaggappatto jato. Tassagatakalato patihaya kakassa labhasakkaro pari hāyi, koci nam oloketum pi na icchi. Kāko khādanīya bhojanīyam alabhamāno "kā" 'kā" ti vassanto gantvā ukkārabhūmiyam otarı.
 - (iii) Nidhim nidheti puriso gambhīre odakantike Atthe kicce samuppanne atthaya me bhavissati, Rājato vā duruttassa corato plutassa vā lnassa va pamokkhāya dubbhikkhe apadasu va Etadatthaya lokasmim nidhi nama nidhiyati.
 - (b) Analyse the compound in the italicized word in 1 (u). (c) Parse atthaya in 1 (ii),

3

- (d) Derive saventassa in (i)
- 2. Either, Reproduce the "Novice's questions" (kumārapanhā) as given in the Khudaakapatha.
- Cr. Enumerate the ten points of indulgence claimed by the Vajjian monks of Vesālī.
- (a) Analyse the sandhis in three of the following :- sabbhireva. ullokite, durutassa, etadatthaya, and anussarantassa.
- (b) Decline any three of the following bases in the dative and locative cases in both the numbers:—attā, rāja, go, and ratti.
- (c) Frame sentences in Pali to illustrate the use of any three of the following:-
 - (i) a locative absolute:

 - (ii) a pronominal adjective;
 (iii) an adjective in the superlative degree;
 - (iv) a present participle used as an adjective.
- (d) How are past participles formed in Pāli? Give the past participles of four of the following roots:— $d\bar{a}$ $th\bar{a}$, kar, car, nad, 5 and tar.
- (e) Name the different ways of formation of "denominative verbs," and give an example of each.
 - 4. Translate into English any two of the following extracts: 80
- (a) Ath'eko "Kharadāthiko" nāma yakkho Mahāpurisassa dānajihāsayatam sutvā brāhmaņavanņena upasamkamitvā Mahāsattam dve dārake yaci. Mahāsatto hatthapahattho udakaparıyantam pathavim kampento dve pi darake adasi. Yakkho camkamanakotiyam thatva passantass'eva Mahasattassa mulakalapam viya dārake khādi. Mahāsattassa yakkham oloketvā anumattam pi domanassam na uppajji. "Sudinnam vata me dānam" ti cintayato pana assa sarīre mahantam pītisomanassam udapādi.
- (b) Sakko vaddhakivannam nimminitvā vāsīpharasuhattho Mahāsattassa purato pāturahosi "atthi nu kho kass ci, bhatiyā kattabbam" ti āha. Mahāsatto disvā 'kim kammam karīssasī' ti āha. 'Mama ajānanasippam nāma n'atthi, geham vā maṇḍapam vā yo yam kāreti tassa tam katum jānāmī'' ti. "Tena hi mayham kammam atthī'' ti. Kim ayyā'ti. "Svātanāya me satasahassabhikkhū nimantitā tesam nisī lana-mandapim karissasī ti."
- (c) Rañño Mahilam ukhe nama mangala-hatthi ahosi silava āçārasampanno, na kinci vihetheti. Ath'ekadivasam tassa salaya samipe rattibhagasamanantare corā āgantvā tassa avidūre nisinnā mantayimsu. So tesam vacanam sutvī "mam sikkhāpeti" ti sañūāya kakkhalo pharuso ahosi. "Mahilāmukho ummattiko jāto, dittha-ditthe māretī" ti rañño ārocesi. Rājā Bodhisattam pahini: "gaccha Pao dita janahi kena karanena so duttho jato" ti.

5. Translate into Pāli:-

At Taxila, in the kingdom of Gāndhāra, there lived in the olden days a learned man of great fame, who had many pupils. One day, the pupils set out for the wood to get fuel for their teacher. Among them there was one who was very lazy. In the wood he came on a big tree which he fancied to be dry. And he thought of taking a nap first and afterwards climbing the tree to break a few branches and carry them home as fuel.

ARABIC

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COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. (a) Translate into English:

16

قل اعوذ برب الناس - ملك الناس - اله الناس - من شر الوسواس الخناس الذي يوسوس في صدرر الناس - من الجنة والناس *

B.

الم نشرح لك صدرق و رضعنا عنك وزرك الذي انقض ظهرك و رفعنا لك ذكرك - فاذا و العسر يسرا الله مع العسر يسرا الله عنه العسر يسرا الله مع العسر يسرا الله عنه الل فرغت فانصب و الي ربك فارغب * (b) Account for the repetition of ان مع العسريسرا and why is the المراب placed after the المراب ?

2. Answer any five of the following:—

(a) Give بادا العراب العراب العرب المراب العرب العرب

Α.

1. Translate into English any one of the two following:--

حكى ان صيادا كان فى بعض الخلجان يصيد فيه السمك فى زررق فراى ذات يوم فى ارض الماء صدفة كاللوالوا حسنا فتوهمها جوهوا له قيمة وكان قد القى شبكته فى البحر فاصاب سمكة كائت قوت يومه فتركها و ذهب فى الماء ليلخذ الصدفة - فلما اخرجها وجدها فارغة لا شئ فيها مما ظن فندم على ترك ما في يده للطمع و تاسف على ما فاته - فلما كان فى اليوم الثاني ذهب الى جانب آخر بعيدا على ما فاته - فلما كان فى اليوم الثاني ذهب الى جانب آخر بعيدا عن ذلك المكان و القى شبكته - فاصاب حوتا صغيرا و راى ايضا صدفة سنية فلم يلتفت اليها و ساء ظنه بها فتركها فمربها بعض الصيادين فاخذها فوجد فيها دره تسارى اموالا *

В.

ارسل قيصر رسولا الى عمر بن الخطاب رضى الله عنه - لينظر احواله ، و يشاهد افعاله فلما دخل المدينة سال اهلها وقال اين ملككم - فقالوا ما لنا ملك بل لنا امير قد خرج الى ظاهر المدينة - فخرج الرسول فى طلبه - فواة نائما فى الشمس على الارض فوق الرمل الحار وقد وضع درته كالوسادة و العرق يسقط من جبينه الى ان قد بل الارض - فلما راه على هذه الحالة وقع الخشوع فى قلبه و قال وجل يكون

جمهع الملرك لا يقر لهم قرار في هيبته و تكون هذه حالته و لكن يا عمر عدلت فذمت - و ملكذا يحور و لا جرم انه لا يزال ساهرا خالفا * 4. Explain in English :-Either. بقدر الكد تكتسب المعالى * و من طلب العلى سهر الليالي يغوص البحر من طلب اللآلي * و يحظى بالسعادة و النوال ومن طلب العلى من غير ك * اضاع العمر في طلب المحال Or. ترد رداء الصبير عند النوائب تذل من جميل الصبر حسن العواقب و کن حافظا للوالدين و ناصرا لجارك ذى التقوى ر اهل الاقارب ر كرن طالبا للرزق من باب حلة تضاعف عليك الرزق من كل جانب 5. Briefly reproduce in English the story of 7 الشيخ المحتال و المرأ 7 6. Correct the following:-رائت اخى على ذلك الحالة - اتعرف ما انا - كان الشيخ شاعر مشهور - صار الفقير غذي - ان الحكماء قال قولا سديدا - القي الصياد شبكته فاصاب حرت - جاء رجلين الى زيد * 25 7. Translate into Arabic:-The cock gets up very early in the morning. (a) The sun has risen in the sky. (b) Fire is very useful for cooking. The dog is a very faithful animal. You have five fingers on one hand. I shall return the basket to you after sixteen days. **(f)** There are ten trees in this road. What bird is that I see on this tree?

(ħ)

Oh man! Tell me who you are. Honesty is the best policy.

ADDITIONAL PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English either A or B :-

12

A,

- (a) و التين و الزيتون و طور سنين و هذا البلد الامين لقد خلقنا الانسان في احسن تقويم ثم رُدُدنُه اسفل سافلين إلا الذين امنوا و عملوا الصالحات فلهم احرَّ غير ممنون فما يكذبك بعد بالدين اليس الله باحكم الحاكمين *
- ولا يحيطون بشيء من علمه إلا بما شاء رسع كرسيه (b) السموات و الارض و لا يؤده حفظهما و هو العلى العظيم \star

B

ضالت ناقة الاعرابي في ليلة مظلمة - فاكثر في طلبها فلم يجدها - فلما طلع القمر و انبسط نوره وجدها إلى جانبه ببعض الاردية - وقد كان اجتاز بموضعها مراواً فلم يو لشدة الظلام - فرفع واسه الى القمر وقال ماذا اقول وقولى فيك ذو خطر - وقد كفيتنى التفصيل و الجملا ان قلت ما زلت مرفوعا فانت كذا - او قلت زانك ربى فهو قد فعلا *

2. Either, Give a description of الامام العادل Or, Write the story of على شار as mentioned in your text book.

3. Translate into English:— 30

- (a) ان رجلا نزل في مركب مع جماعة ولم يزالوا سائرين حتى طلع عليهم ربع فُرُجُهُمُ ذلك الربع الى ارض من اراضى الله تعالى وكان ذلك في سواد الليل فلما اشرق النهار خرج عليهم من مغارات تلك الارض اقرام سود الالوان عراة الاجساد كأنهم وحوش لا يفقهون خطاباً *
- (b) قال النبي صلى الله عليه رسلم لقمة واحدة في بطن جائع خير من الف ركعة - من جلس عند مذاكرة العلم احب الى الله تعالى ممن يتصدق بعشرة دراهم - كل قلب مشتاق إلى الجنة ر الجنة

مشتاق إلى اربعة اقوام - ارلها من اطعم جائعاً ر الثاني من كسي عرياناً و الثالث من صام شهر رمضان و الوابع من يقراء القرآن - من زارنی بعد مماتی فکانما زارنی فی حیاتی *

4. Answer any four of the following:-

- (a) Re-write the extract (a), Question 3, with vowel-points (اعراب)
- (b) Give the باب and تعليل of the following:-ميزان and مقيم - لم يكن - إرم - قام
 - and give examples.
 - (d) Form sentences with the following words:-

عشرون and كنت - ظنوا - ليست - لعل

- (e) Give the opposite numbers of the following with کبری and کبرا - ملك - انصار - شریف
- جمع and مفت What are the conditions of being غير منصرف Give examples.
 - (g) Correct with full اعراب
- (١) كان محموداً عالماً *
- (٢) جائني مسلمون المدينة *
- (٣) ذهب الليل رجاءت النهار *
 - (١) ما اسم ابوك يا عبد الله *
- (a) عندى سبع كتاب ر مائة دراهم *
- 25 5. Translate into Arabic any ten of the following:

(a) I do not worship anybody beside God.

(b) Is that person very tall?
(c) All people respect the learned man.
(d) How many boys are there?
(e) Here are one hundred and seven boys.
(f) This girl is very intelligent.

(g) If you come to my house, I will go out with you.

(h) Surely Abdullah is a rich man.

- The boys are reading in the school.

 Mahmud did not go to school yesterday.

 Do good deeds and never tell a lie.
- (1)

(le)

- This woman has a son. (l)
- (m) She was killed at night.

PERSIAN

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COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into simple English one of the following passages:—

ما قسل آن باشد که او شاکسر بود

و آنگهسی بسرنفس خود قادر شود
هر که خشم خود فرو خورد اے جوان
بساشد او از رستگاران جهان
آن بسود ابلیه قسریس مسردمان
کو پسیء نفیس و هوا بساشد دوان
هیر که او را نفیس تسوس رام شد
از خسردمندان نیکسو نیام شد
با ریاضت نفس بدرا گوش مال
تا نینسدازد تسرا انسر ربال

R

یکی طعن و تشنیع میزد بسی * به آزاد مردی حقیقت رسے سخن چین سخنها بار بازگفت * ازان ژاژخائی چوگل برشگفت بشکرانه رخسار برخاك سود * به یزدان سپاس فراران نمود پس آنگه چنین گفت آزاد مرد * که می بایدم در جهان فخر گرد که یاد چو من ناسزا بده * نمود است سالار فرخنده.

2. Who is the author of the extract A of Question 1? Give a short account of his life.

3. Give the substance of the following either in English or 10 Persian:—

ای رسالت را علم افراخته

دست ترتیغ شریعت آخته

مرکبت کے بے مکان بنہاد پائے

قدر تو بر لامكانش تاخته

نه قبائی چرخرا خیاط صنع

خاص بهر قامتت پرداخته

جز خدا کس حد تو نشناخت زانك

کس خدارا همچو تو نشناخته

4. Answer any three of the following:-

(a) Give the significance of the following suffixes and form words therewith:—

(گر - سار - بان - آنه - زار - کده)

(b) Give the meanings and opposite numbers of the following words:—

(c) Enumerate the significances of (يابي معروف)

(d) Form sentences to illustrate the use of—

(آتش زدن - فررگذاشتی - بجراه شدن - تلف شدن)

5. Translate any two of the following into English:-

هرمزرا گفتند که از رزیران پدر چه خطا دیدی که بند فرمودی - گفت خطائی معلوم نکردم لیکن دیدم که مهابت من در دل ایشان بیکران است و بر عهد من اعتماد کلی ندارند - قرسیدم که از بیم گزند خریش آهنگ هلاک من کنند *

B.

مالدارے را شنیدم که به بخل چنان معررف بود که حاتم طائی به کرم - ظاهر حالش به نعمت دنیا آراسته - و خسّتِ نفس در نهادش چنان متمکن که نان به جانے از دست ندادے - وگربهٔ ابو هریرورا به لقمه ننواختی و سک اصحاب کهف را استخوان نینداختی *

C.

در مجلس کسرون سه تن از حکما جمع آمدند - فیلسوف ررم رحکیم هند و بزرچمهر شخن به آنجا رسید که سخت ترین چیزها چیست - ررمي گفت پیری و سستی با ناداری و تنگدستی شددی گفت تن یمار به اندوه بسیار ' بزرچمهو گفت نزدیکی اجل با در ری از حسن عمل ' همه بقول بزرچمهر رضا دادند *

6. Write notes on (- گربه ابو هريوه and عاتم طائي) 6.

7. Correct the errors in the following:—

ملک این کلام خرش امدند - دامن از کجا آرد که جامه نداریم - ما فردا بنارس رفته بودم - ارشان چیز خرب نیستند -

8. Translate into Persian :-

25

I went to the maidan yesterday to see the game. There was a large crowd of spectators. There were men of all communities present. The two teams were equally strong. The game continued for half an hour when the rain set in. The game, therefore, had to be stopped, and the spectators went back disappointed.

ADDITIONAL PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any one of the following extracts:—(a) 12

هی دریشی با پادشاهی طریقهٔ اختلاط داشت - ررزی در پیشانی (a) از اثر گرانی معاینه کرد - هر چند تجسّس کرد جز کثرت تردد و بسیاری آمد و شد سببی دیگر ندید - دامن اختلاط در چید - ررزی بادشاه با ری

در ممری اتفاق ملاقات افتاه - زبان بمقالات بکشاد که ای درریش موجب چیست که از ما بریدی و قدم از آمد و شد کشیدی - گفت موجب آنکه دانستم که از سبب نا آمدن سؤال به که از جهت آمدن اظهار ملال *

(۵) چراغی که بیرو زنی بر فروخت
بسی دیده باشی که شهری بسوخت
ازان بهرو روتر در آفاق کیست
که در ملکرانی بانصاف زیست
چو نوبت رسها زینجهان غربتش
ترحم فرستند بر تربتش
بدر نیک مردم چو می بگذرند
ممان به که نامت به نیکی برند
خدا ترسرا بر رعیت گمار
خدا ترسرا بر وغیت گمار
بداندیش تست آن و خونخوار خلق
که نفع تو جوید در آزار خلق

2. Either, Write in your own words an account of رصایایی چنگیز خان بفرزندان خرد Or, Write a short account of the life of شیم علی حزین

3. Translate into English:-

30

8

شاهزاده شاپور سوار اسپ شده ررزی برای سیر ر تماشا باطراف باغهای شهر رفت - در یکی از باغات دید که مردی بسیار پیر ر نانوان با کمال زحمت مشغول باغبانیست ر درخت خرمائی را در زمین می نشاند - نزدیک از رفته از اسپ پیاده شد و برر سلام کرد و گفت - ای پیر مرد با این حالت پیری و ناتوانی چه میکنی و چرا اینقدر بخود زحمت میدهی - پیر مرد گفت ای جوان انسان تا نفس میکشد باید مشغول زحمت باشد و از دست رنج خود لقمهٔ نانی پیدا کرده بیمنت دیگری با عزت زندگانی نماید و نیز بقدر مقدور برای دیگران زحمت کشد و

خدمت نماید - شاپور پرسید این چه درخت است که می نشانی گفت درخت خرماست - شاپور پرسید پس از چند سال بر خواهد داد - گفت بعد از ده سال - شاپور گفت پس میوهاش که بتو نمیرسد - چرا اینقدر زحمت میکنی - پیر دانا گفت ای پسر عزیز - دیگران برای ما کاشتند ر ما میوهاش خوردیم - ما هم باید بکاریم تا دیگران از ثمرهاش بهرهمند گردند *

4. Answer any three of the following:-

15

(a) Explain the grammatical construction of the following compound words and give the meaning of their component parts:—

- (b) What auxiliary verbs are used as principal verbs? Give instances to illustrate their uses.
 - (c) Give the opposite numbers of-

(d) Construct sentences to illustrate the use of the following:-

(e) Correct or justify:-

5. Translate into Persian :-

35

A girl, five years old, got two pice from her mother to buy sweets. She bought some, but, when she was coming home, she saw at the door of her house a poor lad, who said he had not eaten anything for two days. The girl was sorry to hear this and gave him the sweetmeats she had purchased. She was very glad that she was able to help a poor hungry lad. When the mother came to know of this, she kissed her child and gave her an anna for her kind action.

25

LATIN

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COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English:-
- (a) Ex illo fluere ac netro sublapsa referri spes Danaum, fractae vires, aversa deae mens. Nee dubiis ea signa dedit Tritonia monstris. Vix positum castris simulacrum: arsere coruscae luminibus flammae arrectis, salsusque per artus sudor nit, terque ipsa solo (mirabile dictu) emicuit parmanque ferens hastamque trementem. Extemplo temptanda fuga cauit aequora Calchas, nec posse Argolicis exscindi Pergama telis omina ni repetant Argis numenque reducant quod pelago et curvis secum avexere carinis.
- quod pelago et curvis secum avexere carinis.

 (b) Talia vociferans gemitu tectum omne replebat, cum subitum dictuque oritur mirabile monstrum. Namque manus inter maestorumque ora parentum ecce levis summo de vertice visus Iuli fundere lumen apex, tactuque innoxia mollis lambere flamma comas et circum tempora pasci Nos pavidi trepidare metu crinemque flagrantem excutere et sanctos restinguere fontibus ignis. At pater Anchises oculos ad sidera laetus extulit et caelo palmas cum voce tetendit:

 'Iuppiter omnipotens, precibus si flecteris ullis, aspice nos, hoc tantum, et si pietate meremur, da deinde augurium, pater, atque haec omina firma.'
- (c) Exigua parte aestatis reliqua Caesar, etsi in his locis, quod omuis Gallia ad septentriones vergit, maturae sunt hiemes, tamen in Britanniam proficisci contendit, quod omnibus fere Gallicis bellis hostibus nostris inde sumministrata auxilia intellegebat et, si tempus anni ad bellum gerendum deficeret, tamen magno sibi usui fore arbitrabatur, si modo insulam adisset et genus hominum perspexisset, loca, portus, aditus cognovisset; quae omnia fere Gallis erant incognita.
- (d) At Casar, etsi nondum eorum consilia cognoverat, tamen et ex eventu navium suarum et ex eo quod obsides dare intermiserant fore id quod accidit suspicabatur. Itaque ad omnis casus subsidia comparabat. Nam et frumentum ex agris cotidie in castra conferebat et, quae gravissime adflictae erant naves, earum materia atque aere ad reliquas. reficiendas utebatur et quae ad eas res erant usui ex continenti comportari iubebat. Itaque, cum summo studio a militibus administraretur, xii navibus amissis, reliquis ut navigari commode posset effecia.
- 2. Scan the first two lines of passage (a) in Question 1; and translate with notes on the grammar of the words in italics:—
 (a) Sensit medios delapsus in hostes.

- (b) Et, si fata deum, si mens non laeva fuisset, inpulerat ferro Argolicas foedare latebras. (c) Ardentesque oculos suffecti sanguine et igni. Translate, explaining the allusions :-(a) Hos Ithacus velit, et magno mercentur Atridae.(b) Iam summas arces Tritonia, respice, Pallas insedit, nimbo effulgens et Gorgone saeva. Vadimus inmixti Danais haud numine nostro. 4. Parse fully the words italicized in Question 1:-sublapsa, firma, adisset, fore, usui. Either, Give an account of Sinon's treachery. Or, Describe as clearly as you can Caesar's method of bridging the Rhine. 6. Give the genitive plural of-bos, nubes, munus; and the dative singular of-senex, dives, arcus; give the other degrees of comparison of -magis, pius, minimus; write out the future simple of eo, the imperfect subjunctive passive of fero, the present subjunctive passive of $\bar{n}un$ tio; give the principal parts of-remo, relinguo, vivo. Translate into English :---25 Ille habuit fidamque manum sociosque fideles: me profugum comites deseruere mei. ille suam lactus patriam victorque petebat : a patria fugi victus et exsul ego. illi corpus erat durum patiensque laborum: invalidae vires ingenuaeque * mihi. ille erat assidue saevis agitatus in armis: assuetus studiis mollibus ipse fui. * ingenius = delicate. (b) In hoc summo perículo nulla civitas Atheniensibus auxilio fuit praeter Plataeenses. Nam Lacedaemonii responderant missuros quidem sese auxilium, sed ante plenam lunam exire nefas sibi esse. Plataeenses mille miserunt milites, ita ut horum adventu decem milia armatorum complerentur. Parva haec manus admirabih pugnandi cupiditate flagrabat. Egressi ex urbe loco idonco castra posuerunt, unde ingentem barbarorum exercitum conspiciebant. Translate into Latin:-25 They sent her the most beautiful flowers they had. (b) He was so angry that he did not know what he was saying
- or what he was doing.

 (c) If you will allow me to help you I will explain to you what you have to do.

 (d) In the morning of the next day, leaving six cohorts and

(a) In the morning of the next day, leaving six cohorts and two hundred cavalry to protect the camp, he set out with the rest of his forces to lay waste the enemy's territory.

(e) A merchant, who was attacked by three robbers, defended himself so valiantly that the robbers had to kill him in order to get possession of the money he was carrying. If the merchant had given up the money to the robbers, he would not have been killed by them.

ADDITIONAL PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:-

Ecce! manus invenem interea post terga revinctum pastores magno ad regem clamore trahebant Dardanidae; qui se ignotum venientibus ultro

hoc ipsum ut strucret, Troiamque aperiret Achivis, obtulerat, fidens animi, atque in utrumque paratus, seu versare dolos, seu certae occumbere morti. undique, visendi studio, Troiana iuventus circumfusa ruit, certantque inludere capto.

Scan the last line of the above passage. Give grammatical notes on-manus revinctum, fidens animi, and certant inludere.

Translate into English:

5

Exigua parte aestatis reliqua Caesar, etsi in his locis, quod omnis Gallia ad septentriones vergit, maturae sunt hiemes, tamen in Britanniam proficisci contendit, quod omnibus fere Gallicis bellis hostibus nostris inde sumministrata auxilia intellegebat et, si tempus anni ad bellum gerendum deficeret, tamen magno sibi usui fore arbitrabatur, si modo insulam adisset et genus hominum perspexisset, loca, portus, editus cognovisset; quae omnia fere Gallis erant incognita.

Parse gerendum and usui. Give the principal parts of intellegebat, deficeret, and adisset.

5 6

- 3. Decline throughout (a) eadem manus; (b) celeris quaeque navis.
- 4. Write down the perfect indicative (first person singular only) and the future participle (nominative singular masculine only) of the following verbs: -subsisto, redco, tendo, pingo.
 - 5. What constructions are used with-pendere, decet, iurat, 6
- Write down all the forms in which you can express in Latin-He sent envoys to Rome to sue for peace.
- 4

Translate into Latin :--

libet, propter, super?

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(a) The more men's pleasures cost them, the more they seem anxious to purchase them.

(b) The things which I treated lightly in my boyhood, I

value highly in my old age.

(c) Caesar returned to his pitched camp at Gergovia on the

7th July. (d) The ships were prevented by the wind from returning into harbour.

(e) He promises never to fail his friends.

(f) Catilina said that they did not need discussion, but prompt action.

8. Translate into English:-

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(a) Miltiades.

Iisdem temporibus Persarum rex Darius, ex Asia in Europam exercitu traiecto, Scythis bellum inferre decrevit. Pontem fecit in Istro flumine quo copias traduceret. Eius pontis, dum ipse abesset, custodes reliquit principes, quos secum ex Ionia et Aeolide duxerat, quibus singulis

suarum urbium perpetua dederat imperia. Sic enim facillime putavit se Graios, qui Asiam incolerent, sub sua retenturum potestate. In hoc fuit tum numero Miltiades. Hic, quum crebri afferrent nuntii male rem gerere Darium premique a Scythis, hortatus est pontis custodes, ne a fortuna datam occasionem liberandae Graeciae dimitterent.

(b) Love of one's Country.

Nescio qua natale solum dulcedine cunctos ducit et inmemores non sinit esse sui. quid melius Roma? Scythico quid frigore peius? huc tamen ex ista barbarus urbe fugit. cum bene sit clausae cavea Pandione natae, nititur in silvas illa redire suas. adsuctos tauri saltus, adsueta lcones..... nec feritas illos inpedit.....antra petunt.

FRENCH.

Paper-Setter and Examiner-Rev. Fr. E. Populaire, S.J.

COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate three of the following extracts:--
- (a) La nuit était venue quand j'arrivai à la maison de König-strasse. Je m'attendais à trouver la demeure tranquille, mon oncle couché suivant son habitude et la bonne Marthe donnant à la salle à manger le dernier coup de plumeau du soir. Mais j'avais compté sans l'impatience du professeur. Je le trouvai criant, s'agitant au milieu d'une troupe de posteurs qui déchargeaient certaines marchandises dans l'allée; la vieille servante ne savait où donner de la tête.
- (b) Je me sentis perdu. Une heure, deux heures, que sais-je ! se passèrent ainsi. Nous nous serrions les coudes, nous nous tenions les mains afin de n'être pas précipités du radeau; des chocs d'une extrême violence se produisaient, quand il heurtait la muraille. Cependant ces heurts étaient rares, d'où je conclus que la galerie s'élargissait considérablement. C'était, à n'en pas douter, le chemin de Saknussenun; mais, au lieu de le descendre seul, nous avions, par notre imprudence, entraîné toute une mer avec nous.
 - (c) Dès le matin sous mon chaume
 Tout embaume,
 Mes deux volets sont cuverts:
 Du chanvre et des genêts verts
 Quel arome!
 Lorsque la chaleur arrive,
 Quand la grive
 Se cache au fond du blé noir,
 Je puise à mon réservoir
 Une cau vive.
 - (d) Lui qui raillait toujours, certes il ne raillait plus; Et dans son coin, le loup tout piteux et confus, Ses poils bruns hérissés et sa langue buvante, Epouvanté tâchait d'inspirer l'épouvante.

Tous deux se regardaient : 'Hélas! pensait Rî-Wall, Avec ce compagnon il doit m'arriver mal! Et ce mal, juste ciel, vient sur moi par votre ordre! Oui, je serai mordu, moi toujours prêt à mordre.

2. Give your opinion of the peculiarities of Jules Verne as a writer of fiction.

3. Translate idiomatically: - à toutes jambes; nous étions tous deux d'accord; il remit sa visite; cela donne à reflechir; à nous maintenant : lorsque je revins à moi ; non pas que je sache ; de son mieux.

(a) Give the plural feminine of fou, pareil, jaloux, vieillot, trompeur.

(b) Write the infinitive and the past participle of—craignis, résolvez, écrivons, croissons, meuvent. 5. Translate into French:—

We have seen some very pretty things. (b) The town was full of French soldiers.

Have you read the book which I gave you? (c) My mother and father went away last night. (d)

Tell me what you are going to do. (e)

This table is small, but that one is smaller. This is for you, and that is for him. **(f)**

(g)

(h)

Where were you yesterday? I was at school in the morning. (i)Have these children any meat?

Translate into English :--

(a) Le soleil dit d'une voix éclatante : Je suis le roi du jour; je me lève dans l'Orient, et l'aurore me précède pour annoncer à la terre mon arrivée. Je frappe à la fenêtre avec un rayon d'or, pour t'avertir de ma présence, et je te dis : Paresseux, lève-toil; je ne brille pas pour que tu restes enseveli dans le sommeil : je brille pour que tu to lèves et que tu travailles. Je suis le grand Voyageur.

(b) Un riche fermier avait deux garçons, dont l'un était tout juste un an de plus que l'autre. Le jour de la naissance du second, il avait planté un pommier pour chacun d'eux. Lorsque les enfants furent en état de manier les outils du jardinage, il les mena, un beau jour de printemps, devant les deux arbres, qui avaient si également profité de leur culture, qu'on n'aurait jamais pu se décider entre eux pour la préférence 'Je vous les donne, dit-il, ils pourront autant gagner par vos soins qu'ils perdraient, si vous les négligiez.'

Additional Paper

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate three of the following extracts:-

Par notre mère, hélas!

(a) Je ne veux qu'un arpent; pour le mesurer mieux, Je dirais à l'enfant, la plus belle à mes veux : Tiens-toi debout devant le soleil qui se lève; Aussi loin que ton ombre ira sur le gazon. Aussi loin je ni'en vais tracer mon horizon: Tout bonheur que la main n'atteint pas n'est qu'un rêve.'

Vives têtes d'enfants par la course effarées, Nous poursuivions dans l'air cent ailes bigarrées : Le soir nous étions las: Nous revenions, jouant avec tout ce qui joue, Frais, joyeux, et tous deux baisés à pleine joue

30

(c) Il fallait se hâter. Nous étions à cinq jours de marche du carrefour. Je ne m'appesantirai pas sur les souffrances de notre retour. Mon oncle les supporta avec la colère d'un homme qui ne se sent pas le plus fort; Hans avec la résignation de sa nature pacifique; moi, je l'avoue, me plaignant et me désespérant; je ne pouvais avoir de cœur contre cette mauvaise fortune.

(d) Que se passa-t-il alors? Le bruit de la détonation, je crois que je ne l'entendis pas. Mais la forme des rochers se modifia subitement à mes regards; ils s'ouvrirent comme un rideau. J'aperçus un insondable abîme qui se creusait en plein rivage. La mer, prise de vertige, ne fut plus qu'une vague énorme, sur le dos de laquelle le

radeau s'éleva perpendiculairement.

What is the moral lesson of 'What is bred in the bone will not be out of the flesh?' How does La Fontaine convey it to us?

3. What is the rule for the agreement of the past participle of

reflexive verbs with the object?

Translate:—she has cut berself; she has cut her hand.

- Translate:-he has gone away; do not go away; will he go away? I have gone away; let us go away; that you might have gone away; going away; having gone away. (N.B. Use the verb s'en aller.)
 - 5. Insert relative pronouns in each of the following:

La maison-vous voyez. (a)

Entendez-vous ce chien aboie? (b)

L'homme-je vous ai parlé. (c)

- Le train par-vous êtes venu. L'arbre à l'ombre-vous êtes assis.
- Translate into French:--

(i) He always works well, therefore he is never punished. (ii) How old is that little girl? She will be eight years old next Tuesday.

(iii) To whom does thus pen belong? I think it is mine. (iv) These houses are to be sold, but I am not rich

enough to buy them.

(v) You will think of us, when you are far away.(b) A boy who had gone to the sea-side for his holidays, was one day talking to an old I sherman, who told him that his father and his grandfather had both been drowned. 'Then,' said the boy, 'why do you go on the sea?' Because I love the sea,' said the sailor. 'But are you not afraid of being drowned too?'—'I never thick of that 'are you not afraid of being drowned too?'—'I never think of that,' answered the old man. 'But, tell me, where did your father die?' 'In his bed,' replied the boy. 'And your grandfather?' —'Also in his bed.'—'Then, my young friend, I think you are very foolish to sleep in a bed; it seems to be a very dangerous place. You will surely die there one of these days.'

Translate : -

- O combien d'actions, combien d'exploits célèbres, Sont demeurés sans gleire au milieu des ténèbres, Où chacun, seul témoin des grands coups qu'il donnait, Ne pouvait discerner où le sort inclinait! J'allais de tous côtés encourager les nôtres, Faire avancer les uns et soutenir les autres. Ranger ceux oni vonaient les pousser à leur tour, Et ne l'ai pu savoir jusques au point du jour
- (b) Ces questions n'étaient pas faites pour m'endormir, et comme je ne leur trouvais par de réponse, je tachais de les chasser de mon espirit, mais c'était en vain. Après un certain temps, je vis de nouveau la lumière emplir notre voiture, et de nouveau je regardai par la fente de mon rideau; mais cette fois ce fut malgré

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MATRICULATION EXAMINATION

moi et contre ma volonté, tandis que la première ç'avait été tout naturellement pour voir et savoir. Maintenant je me disais que je ne devrais pas regarder, et cependant je regardai.

CLASSICAL ARMENIAN.

Paper Setters = { MR. M. J. SETH, M.R.A.S. NIHIJEAN.

Examiner.—Mr. M. J. Seth, M.R.A.S.

COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:-

(1) Jeff chaptaffent fancy style

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typ of family the range of the black on the to the family and of Africany for your Ispy & stony type, profe thousand to fray for Len have when be timbe after to Werband of the the with cute cutine de offator your offayene to day no yfung yang fany y then copie and for I than iff a ghe affect if effray framper hope in your your off the superinter for your for for the surface of the form of the fact of the surface of the form of the fact of the surface of the form of the surface of the form of the surface of the surfac Marse no for some yfung worky of function (1) Alf form of forme francy process to fine decline - Alfon une wwaghe fup Gune. 10. 12. & Tegustate inti Classical Armencan. ·3a vas Peter arise and went with them. Whiten he came they brought him with the upper chamber. as All the wednes stand by him weeping. car they haved him the coaks and garment where he made for them as Atte Knuled down and prayed. 11, And he said Jabelha course land olu opened her eyes. 19 And when she saw Peters, the sat up. 6 Guch the fellowing (0) Lymporter grip of to xx3.p. ar topicy ypania compressi cympote.

ADDITIONAL PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:-

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for fight governing for Sigh well for feel for fipe very and free way corresponds freshold to stephonety. In when grays fortify forces ye pury case. man to be Myspeni up characterist this following to have and and suiting to uplated enter of applace the day on a offer any surjection to the stand of the s 2. Lean Cafe into Diedern Denivicar 20 Barly expecience shows that if is energetic indecidualism which produces the most powerful Affects afen the life and education of ethers, and really constitutes the bist-fractical education. Schools and Colleges, give but the moves beginnings of culture in comparison with it far more in. fluential is the life education daily given in. one homes, in workshops. Yearstake into Classical Armenian 20 ter hayupepa-ph-egzuphfefat ughyfes 11) Upigupe nyape in it is a apay for so and any for cay for to allfel filment by on wife Capte officerof to for for 4. Sefue in Rollin Himo con igne conflict each of the filler 15 h) Effigue sen Gene fen, " (penenpengere finger) s. Oute sheet ausures of the fellowing ques Lellowing questions on the for hope is region duty. An exagend anyty, Too to meaning in English of the following in as off, Johnson, powers, Hack Spay Horige, why en fly anyworms, work general, Aft & style

CLASSICAL TIBETAN.

Paper-Setter and Examiner—Mr. Satkari Mukherjee, M.A.
Compulsory Paper.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate the following extracts into English:-

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- णवात्तात्रभावंत्रः कुं.रेटशातालश हि.२भाकृवात्रमानुट विमाकृतिट त्रूर त्वीर है। व्याप्त स्थान्त स्थान स्थान्त स्थान स्यान स्थान स्यान स्थान स्यान स्थान स
 - रब्र्च-पंक्रीर-जॉक्ट-ज्ल-पंक्रियनसभ्यां <u>च्</u>चक्ट ॥ श्रैय-प्रभावेश-रथ-सैच-चर्मज-८ ॥ ल्ट-भच्चेच्य-रच-२-८-चर्-ल्ट-क्यु-स्री-श्रीय-१॥ (१) क्र्य-रथय-क्रूर-टे-ल्ट-च्ये-ल्ट-चर्झ-४॥
- 2. Comment grammatically on the underlined word in (a); and conjugate the roots of the underlined expressins in the present, past, and future tenses, and in the imperative mood.
- 8. Give a brief account of the reforms and achievements of King Strong-chen-gam-po in Tibet.
 - 4. Explain in English the purport of the following stanza:- 10

चास्त्रस्य तृ स्थव-दृ त्यक्ति । स्थ-तत्र स्थव-दृ त्यंत-य-हे । सर्ध्य-त्र-दंशका में श्रव्य-स्थ-त्यंत-।। यश्वशास-मार्थे-मु श्रव्य-स्थ-ह्रिट ।

5. Translate the following passage into Tibetan:-

When she was gone, Cassim's wife looked eagerly at the bottom of the vessel to see what it might contain and was greatly surprised to find a bit of gold sticking to it. Her heart was filled with envy at this sight; and she said to herself: 'What! has Ali Baba got so much gold then that he can't stop to count it but must even weigh it with a measure? Where can the wretch have got so much gold, then?' She waited in impatient anger for her husband's home-coming, and said to him as he returned: 'Cassim, you think that you are very rich, but undeceive yourself. Ali Baba has got much more wealth than you can boast; he measures his money, and does not count it as you count your miserable little heap!'

ADDITIONAL PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate the following passage into Classical Tibetan:-

An old king fell sick; and when he found his end drawing near, he said, 'Let Faithful John come to me.' Now Faithful John was the servant that he was fondest of and was so called because he was true to his master all his life long. Then when he came to the bed-side, the king said, 'My Faithful John, I feel that my end draws nigh, and I have now no cares save for my son, who is still young and stands in need of good counsel. I have no friend to leave him with but you; if you do not pledge yourself to teach him all he should know, and to be a father to him, I shall not shut my eyes in peace.' Then John said, 'I will never leave him, but will serve him faithfully, even though it should cost me my life.' And the king said, 'I shall now die in peace : after my death show him the whole palace: all the rooms and vaults, and all the treasures and stores which lie there: but take care how you should show him one room,—I mean the one where hangs the picture of the daughter of the king of the golden roof. If he sees it, he will fall deeply in love with her, and will then be plunged into great dangers on her account: guard him in this peril.' And when Faithful John once more pledged his word to the old king, he laid his head on his pillow, and died in peace.

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2. Translate the following extract into English:-

तकारटः। चैतःश्र.चृ.सेच.त्.नुरं.ट्र्।।

तकारटः। चैतःश्र.चृ.सेच.त्.नुरं.ट्र्।।

तकारटः। चैतःश्र.चृ.सेच.त्.नुरं.ट्र्।।

तकार्टः। द्रम.श्रेचःत्रत्यका। छेट्याचन्यानुर्यकान्तुरः। वर्ष्याचृर्यक्रम्।

केटःश.त्रेच्र.नुरःत्यका। श्रिकःता। चट्यां, क्रिट्योटः तकार्यनुरः। वर्ष्याचृर्यक्रम्, क्रिट्याः कर्याचृर्यक्रमः श्रिकः वर्ष्याचृरः वर्ष्याच्राः वर्ष्याः वर्ष्याच्राः वर्ष्याः वर्ष्यः वर्ष्यः वर्ष्यः वर्ष्यः वर्षाः वर्ष्यः वर्ष्यः वर्ष्यः वर्ष्यः वर्ष्यः वर्ष्यः वर्षः वरः वर्षः वर्षः वर्षः वरः वर्षः वरः वर्षः वर्षः वर्षः वर्षः वरः वरः

- 3. Give a short-summary and point out the moral of the 10 story, 3.754.54.2.787.41
- 4. Give five Tibetan classical proverbs with their English 5 translations.
 - 5. Correct the errors in the following:— 5

BENGALI TEXT (FOR MALE CANDIDATES.)

Paper-Setter and Examiner—Rai Bahadur Dr. D. C. Sen, B.A., D.Litt.

COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Explain the allusions contained in the following passages: 9
- (a) "বিশেষত: একবার এক বৈরাগীর আখডায় চূণকামকরা এক গিরিগোবর্জন দেখিয়া পাহাড়ের আকার অনুভব করিয়া লইয়াছিলাম।"
- (৫) "সীমার হোশেন-শির পূর্ব্ববং বর্ণায় বিদ্ধ করিয়া দামেস্কা-ভিমুখে চলিল।"
- (c) "আমি এই সময়টা সেক্ষপীয়রের গ্রন্থরাজি পাঠ করিব। কিন্তু পিত: ভূমি এই সময়টা কি করিয়া কাটাইবে ?"
- 2. Explain any four of the following with reference to their 16 contexts:—
 - (a) বে বংশে সগর রাজা, রঘুবীর মহাতেজা,
 ভগীরথ বেণ মহাশয়
 হেন বংশে জনমিয়া, না কৈয় বংশের ক্রিয়া,
 জিনে মোরে মুনির তনয়।
 - (b) বিশ্বলোক ভাবিল বিশ্বয়ে,
 যাহার পতাকা

 শব্দর আছেল করে, এত কাল ক্ষুদ্র হ'রে
 কোণা ছিল ঢাকা ?
 - (c) গগনবিস্পী বনস্পতি যথন ভূমিতে কলেবর রক্ষা করে, তখনই ভাহার জীবনেভিহাসের পরিস্মাপ্তি হয় না।
- (d) যাহার <u>মুখ</u> কুশের অগ্রভাগ বারা ক্ষত হইলে তুমি ইঙ্গুদী **ভৈল** দিয়া ত্রণ শোষণ করিয়া দিভে,— সেই মাতৃহীন হরিণ-শিশু ভোমার প্রভিরোধ করিতেছে।
- (e) সেই স্থকোমল ক্ষুদ্রশিশুহস্তটুকুর স্পর্শধানি তাহার বিরাট বিরহী বক্ষের মধ্যে স্থাসঞ্চার করিয়া হাথে।
- (f) বাহার প্রচণ্ড ঘূর্ণণাকে শত শত লোক মৃত্যুমুথে পতিত হইরাছে, তাঁহারই ঘাটে ঘাটে এত লোকের ভিড় কেন ?
- 3. Parse the words underlined in the above extracts and give short biographical notes on the authors of (a), (b), and (d).

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4. Correct all errors in the following:-

আমি আগামী পরধ তারিথ বাড়ী যাইয়া দেখিলাম, আমার মাডা আরোগ্য হন নাই, তাঁহার পীড়া উৎকট-অবস্থা। ডাক্তারেরা আমাকে কোনই বিশ্বাস দিতে পারিলেন না, তথাপি বলিলেন "এই বিপদ কর্ত্তিত হইয়া না গেলে আপনার কোন ক্রমেই ইহাঁর সল্লিকট ত্যাগ করা উচিত হইবে না।" এ দিকে পূজা সমাসল্ল, এ সময়ে গৃহে থাকিলে নানা দিকেই ক্ষতির ভরসা। কি উপায় ধারণ করিব, মাতৃদেবীর চিকিৎসারই বা কি পন্থা ব্যবস্থা করিব, তাহা ভাবিয়া কিছুই অবধান করিতে পারিলাম না। তর্ভাবনায় চক্ষে তিলফুল দেখিতে লাগিলাম।

5. Re-write the following, correcting all spelling mistakes:—
তুমি কি সত্ব সত্বই বাড়ী যাওয়া স্থীর করিয়াছ ? আমি ভোমার
দেষটা একবার বেরাইয়া আসিব মনে করিয়াছিলাম, কিন্তু এত তারাতারি
ভো আমি জোগার করিয়া প্রস্তুত হইতে পাড়িব না। ধোবার বারীতে
কাপর গুলি আছে, সে গুলিই বা ফেলিয়া যাই কিরুপে ?

- 6. Join the following sentences to make one simple sentence:-
 - (a) সন্ধা সেদিন অতি মনোরম ছিল।
 - (b) নদীর ঢেউগুলি নিম্ডর ছিল।
 - (c) আমরা কয়েকটি বন্ধ গল্প করিভেছিলাম।
 - (d) আমরা সেই নদীতারে ভ্রমণ করিতে লাগিলাম।
- 7. Translate any two of the following into English:-
 - (a) পাঠ করি লিপি বজ্রকঠে হাঁকিলা মালেশব,—
 নামাও বংশী, থামাও নৃত্য, সাজ খুলে' ফেল, বর!
 কঠিন বিবাহ ঘনায়েছে আজ,
 ভারই লাগি সবে পর' নব সাজ,
 সেই মিলনের শুভলয়ের সময় অগ্রসর—
 হে বরমাত্রী। আগত রাত্রি—হও সবে সত্বর।
 - (b) কুড়ায়ে পথের রোগী সংক্রামকে দিলা তুমি প্রাণ,—
 তব্ও নান্তিক তুমি! ও অস্থি নেবে না গোরস্থান!
 তাই ছাত্র প্লীতলে বিরাজিছ ছাত্রের দেবতা!
 সমাধা—সমাধি সেধা পবিত্র ব্রতের যেধা সুরু!
 ছাত্র পরম্পরা স্মরে প্রা তব জীবনের কথা—
 মনুষ্যত্ব-ধর্মে পূত—হে নান্তিক! জান্তিকের গুরু!
 - (c) মারাঠির সাথে আজি, হে বালালী, এক কঠে বল
 "জ্বয়তু শিবাজী।"
 মারাঠির সাথে আজি, হে বালালী, একসলে চল
 মতোৎসবে আজি।

আজি এক সভাতলে ভারতের পশ্চিম পূরব দক্ষিণে ও বামে, একত্রে করুক ভোগ একসাথে একটি গৌরব এক পূণ্য নামে।

8. Translate the following into English:

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আমরা যতই অগ্রসর হইতে লাগিলাম ততই সমুদ্রের পর্জন স্পষ্ট ভাবে শুনিতে পাইলাম, তথনও নীল দিল্প আমাদের চক্ষে পড়ে নাই; মনে হইল ভূতল হইতে শত বজ্রনাদ উথিত হইতেছে। আমরা উৎসাহের সহিত্ত কথা বলিতেছিলাম, কিন্তু দেই মহাশব্দ আমাদিগকে যেন চুপ করাইরা দিল, রাজাক্রার মত সমুদ্রদেবের দেই আদেশ আমরা স্বতঃ স্বতঃ মান্ত করিয়া বিনা বাক্যব্যয়ে আরও কিছু দ্ব অগ্রসর হইয়া যে দৃশ্য দেখিতে পাইলাম, তাহা কথনও ভূলিব না। সেই আমাদের প্রথম সমুদ্রদর্শন। শত শত তরঙ্গ ফেনিল তাজ মাথায় পরিয়া তালে তালে গর্জন করিতে করিতে আসিতেছে, তাহাদের মস্তকে স্ব্যাদেব সোনার মুকুট পরাইয়া দিতেছেন, শুল্র কেনপুঞ্জের উপর স্ব্যারশ্মি ধক্ ধক্ করিয়া জলিতেছে। সেই তরঙ্গরাশি ক্রমণঃ বেলাভূমির দিকে আসিয়া লাফাইয়া পড়িয়া ভাজিয়া যাইতেছে। আর এক দল তরঙ্গ পুনরায় পুঞ্জীভূত হইয়া তাহাদের স্থান লইতেছে।

ADDITIONAL PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English :-

Either.

(a) জননী ঋষির দাসী, আমি তাঁহার একমাত্র পুত্র। একদা তিনি নিশাকালে গোদোহন করিবার জন্তু বাহিরে যান। পথে একটি কৃষ্ণসূপ পাদস্ট হইবামাত্র তাঁহাকে দংশন করে এবং তিনি পঞ্চ প্রাপ্ত স্থান করিবাম। কিন্তু এইটি আমি অভীষ্টসিদ্ধির বড় স্থযোগ মনে করিবাম।

Or.

- (৫) আমি একাকী ঝিল্লিকাগণ-নিনাদিত এক ভীষণ মহাবনে প্রবেশ করিলাম। পর্যাটনশ্রমে আমার অভিশব কুৎপিপাসা পাইরাছিল। আমি সরোবরে স্থান ও জল পান করিয়া ক্লান্তি দূর করিলাম। মন প্রশান্ত হবল।
- 2. Give full references to the anecdotes in the life of the Saint referred to in extracts (a) and (b) in Question 1.

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- 3. Explain any three of the following with reference to their context:—
- (a) <u>কৈলাস্থাসিনীর</u> সঙ্গে সঙ্গে আমার ব্রের <u>আনন্দ্রময়ী পিতৃভবন</u> অন্ধ্রকার করিয়া পভিগৃহে যাত্রা করিবে।
- (৫) দণ্ডকারণ্যে যিনি আমার সঙ্গে সঙ্গে আসিয়াছিলেন, আমার সেই বনসন্ধিনী ছঃখসহায়াকে কোথার রাখিয়া আসিলে ?
- (c) গোহাটা বস্তুটা যে ঠিক কি, তাহা আমিনা জানিত না, কিন্তু মহেশের সম্বন্ধে ইহার উল্লেখ মাত্রেই তাহার পিতা যে কিরূপ বিচলিত হইয়া উঠিত, ইহা সে বছৰার লক্ষ্য করিয়াছে।
 - (d) মরে না মরে না কভু সত্য যাহা, শত শতাকীর
 বিশ্বতির তলে,
 নাহি মরে উপেক্ষায়, অপমানে না হয় অস্থির,
 আখাতে না টলে।
 - 4. Expound the words underlined in the extracts in Question 3.
 - 5. Translate into English :-

আকবর যুদ্ধবিভার বিশেষ পারদর্শী ছিলেন। সাহসে ও রণ-কৌশলে তিনি আরাঞ্জীৰ হইতে কোন অংশে নান ছিলেন না। কিন্তু তিনি তাঁহার এই বীরত্ব ষেখানে সেখানে দেখাইতে ব্যগ্র ছিলেন না। বস্তুতঃ তিনি ষেখানে যুদ্ধ না করিয়া শাস্তির সহিত তাঁহার সাম্রাজ্যের শ্রীবৃদ্ধি করিতে পারিতেন, সেখানে কখনই অস্ত্র-ব্যবহার করিতেন না। তিনি প্রীতি ও বন্ধুত্বের আখাস-বাক্য লইয়া রাজপুতনার নৃপমগুলীর নিকট অগ্রসর হইয়াছিলেন। ইহাতে সমস্ত ভারতবর্ষ অতি সহজে তাঁহার আমুগত্য স্বীকার করিয়াছিল। তিনি হিন্দু মুসলমান ও খৃষ্টান এই তিন সম্প্রাদারের উচ্চভাব লইয়া "এলাহি" নামক এক ধর্ম প্রচার করিয়াছিলেন। কথিত আছে তিনি স্বয়ং নিরামিষ ভোজন করিতেন এবং মাথায় তিলক পরিতেন। আকবর হিন্দুদের উপর যে জিজিয়া নামক কর ছিল, তাহা ভূলিয়া দিয়াছিলেন এবং হিন্দুরাজ-কন্তা বিবাহ করিয়া হিন্দু-প্রীতির পরিচয় দিয়াছিলেন।

6. Correct all errors in the following:-

তুমি কি মনে করিয়াছ, প্রয়োঘন বীনা আমি কথনও ভাহার সঙ্গে দেখা শাক্ষাং করিতে যাই ? তুমি আমার চরিত্র ঠিক বুঝিতে সক্ষম হও নাই,—আমি যার তার সহিত বেশি ঘনিস্টতা করিতে প্রয়্তুত নই। সে একদিন যাচিঞা আমার সহিত ভাব করিতে আসিয়াছিল; আমি যানিতাম ভাহার অনেকটাই মৌথিক স্বতরাং আমি ভাহার কথার আখাস করিতে পারি নাই। যদিও সে দেখিতে ভাল, কথাবার্তা মিস্ট এবং শতি চতুর,

পরস্ক যে ভাহার সহিত কতকদিন মিশিয়াছে সেই বুঝিতি পারিল যে পে মনে মুখে এক নাই। ভাহার বাহ্য একরুণ এবং ভিতরে অক্সুপ।

7. Construct a few sentences to illustrate the use of a participle verb, and adverbial adjunct, a Bahubrīhi and a Karmadhāray samāsa.

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8. Translate into Bengali :--

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Either

(a) Rām said to Lakshman. 'Don't you, dear brother, see in all that has transpired, the hand of Providence? It is the will of God that we should leave home and go to the forest. When anything happens, contrary to all reasonable expectations, changing the tide of affairs in an unforeseen direction, one may naturally trace such an unexpected course of events to divine dispensation. The queen Kaikeyī has loved me all along as her own son. Bharat was never dearer to her than my humble self. Every thing, preliminary to installation, was performed. Who in this great kingdom had the least shadow of doubt that I sould be installed on the throne of Ayodhya to-day? But just see what turn the affairs have taken all on a sudden! It is the decree of Providence that has upset all arrangements and as such it will be foolish to fight against fate. The unforeseen—the inevitable has come, and matters as they stand now are beyond all human control.'

Or.

(b) Lakshman made an angry reply, he said. 'All misfortune comes in this way. Call it providential. There is no fighting with the name you give to it. But surely there is the power in man to resist and overcome all ill. It is cowardly to yield to adverse circumstances without a fight. Give me permission, dear brother, to fight with what you call Providence or Fate. I am prepared to establish, by manliness and courage, the superior moral force that I possess, and obtain victory over all untoward circumstances. Let me stand with my bow before all the force that Bharat may command. Alone though I be against hordes of enemies I will vanquish them in a short time, change the tide of affairs, and obtain the throne for you which rightfully belongs to you, but which you are going to abandon owing to effeminacy and cowardice.'

BENGALI (FOR FEMALE CANDIDATES).

Paper-Setters— { Srimati Bangabala Mookerjee, B.A., B.T. Suniti Sarkar, B.A.

Examiners— { SRIMATI SANTA NAG, B.A. , SANTIBALA RAY, M.A.

COMPULSORY PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate any two of the following passages into English:-

(a) তিনি ভাবিরা দেখিলেন, হাতের কান্স করিয়া খাটিয়া খাওয়া বে হের নহে এবং নিজের চেষ্টার নিজের উরতি সাধন করা বে সকলেরই

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লক্ষ্য হওয়া উচিত, ইহাই এখানকার নিশ্চেষ্ট উদাসীন লোকদিগকে ভাল করিয়া বুঝাইয়া দেওয়া চাই। নিজেদের দারিদ্রা ও বিচ্ছিন্নতার মধ্যে প্রত্যেকে স্বভন্ত হইথা জীবন না কাটাইয়া যাহাতে তাহারা একটা জনসমাজ গড়িয়া তোলে এবং নিজের উভ্তমে রাস্তাবাট তৈরি ও স্কুল স্থাপন করিয়া নিজের শক্তিতেই সকলে সমবেত ভাবে বড় হইবার জন্ত প্রস্তুত হুতিতে পারে দেই দিকে দৃষ্টি দিতে হইবে।

- (৫) সংসারে বান্তব হুংখের অভাব নাই, শত শত বৃশ্চিক পথের মধ্যে পড়িয়া আছে, তাহারা দংশন করিতেও ছাড়ে না; এই অবস্থার কর্মনার সর্প প্রস্তুত করিয়া তাহার দংশনে জর্জারিত হওয়া কি ভাল ? সন্দেহের সময়ে কৃত্র ক্রারণ কর্মনা করিয়া লোক তাহা হইতে এমন একটা অকাট্য সিদ্ধান্ত মনের মধ্যে দাঁড় করায় যে, কিছুতেই মনে হয় না যে, সন্দেহ ভূল। এইরূপ ধারণার ফলে লোককে ফাঁসি-কাঠে ঝুলাইয়া দিয়া বিচারক শেষে দেখিয়াছেন যে তাঁহার ধারণাগুলি ভূল ছিল, তথন অমুতপ্ত চক্ষের অঞ্চ মুছিয়াছেন। এমন অসার ভিত্তির উপর অশান্তির মঠ স্থাপন করিবেন না।
- (c) এখনকার বিভাশিক্ষা-প্রণালী অত্যস্ত দোষাবহ, শিক্ষা দিৰার যে যথার্থ তাৎপর্য্য তাহা সিদ্ধ হয় না; বৃদ্ধিবৃত্তিসকল পরিচালিত হইয়া যাহাতে উন্নত হয়, সে প্রকার নিয়মে শিক্ষা দেওয়া হয় না; কেবল কতগুলি সত্য উদরস্থ করাইয়া দেওয়া হয় মাত্র। যুবকেরা যৎকালে বিভালয়ে অধ্যমন করে, তখন বিভার প্রতি তাহাদিগের অনুরাগ দেখা যায় বটে, কিন্তু যখন সংসারে প্রবিষ্ট হইয়া তাহারা অর্থসংগ্রহে প্রবৃত্ত হয়, তখন তাহাদের ভাব আর এক প্রকার হইয়া যায়। কেরাণী-রাজ্যে একবার প্রবেশ করিলে তাহাদের সকল উৎসাহ নির্ব্ধাণ হইয়া যায়।
- 2. Explain any two of the following passages with reference to the context:—
 - (a) বরিষার কালে, স্বি, প্লাবন পীড়নে কাতর প্রবাহ, ঢালে তীর অভিক্রমি, বারিরাশি গৃইপাশে, তেমনি সে মনঃ হৃঃথিত, গুঃথের কথা কহে সে অপরে।
 - (b) বার অবয়ব বারভাষা-প্রিয়, গউড়-সন্ততি সার, প্রিয়ংবদা স্থা, প্রণয়ের ভক্ন, কামিনী কঠের হার।
 - (c) শিলাথগু, বাধা পরস্পর
 রোধ করে স্রোভোবেগ, ভরঙ্গ উত্তাল;
 কিন্তু অনাবদ্ধ হলে, উলটি, পালটি
 হয় ফ্রেমে রেগুলেষ।

(d) শুন হে প্রীবংস ভূপ, ত্রেভায়গে রামরূপ হইলেন প্রভূ শ্বতার। এক ব্রহ্মা চারি স্বংশে, জন্মিলা ইক্ষাকুবংশে রাজা দশরধের কুমার॥

3. Attempt any one of the following:—
(a) Compare and contrast the servants of the past with those of the present. How should a good housewife treat her servants?
(b) Write a short account of the work and teachings of Vivekananda, laying special stress on the following quotation given in your text:—

"ফিলসফি, যোগ, তপ, ঠাকুরখর, আলোচাল, কলামূলা—এই সব ব্যক্তিগভংশ, দেশগভংশ, পরোপকারই এক সার্বজনীন মহাব্রভ।"

- (c) How would you regard the actions of Jaykali as consistent in view of what Tagore writes about her in his story 'অৰ্থিকাৰ প্ৰবেশ ?'
- 4. (a) Name the different kinds of **| giving one 3 example of each.

(b) Form sentences with the following words after turning them into the feminine gender:—

সরল, রজক, পাচক, ত্রাহ্মণ, মানব, গুণ্ময়।

(c) Name and define the different kinds of samāsas 7 (স্মাস)।

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5. Correct all the errors in the following passage:-

ত্রারোগ্য পর্বতে আরোহন করিতে আমি সক্ষম হইয়াছিলাম না।
দৌর্বলত্ব বশতই বে এরুপমত হইল তাহাতে আর আশ্চর্য্য কি ? আমার
পাধী স্থিয়া আমাকে পশ্চাদপদে ফেলিয়া চলিয়া পেল। ক্মিন্দিকে
কাহাকে না দেখিয়া আমি কাঁদিতে লাগিলাম।

- 6. Translate any two of the following extracts:--
- (a) দেশের পক্ষে যাগ হিতকর ভাহার অনুষ্ঠান এবং যাহা অকল্যাণকর তাহার সংস্কার না করিয়া কেবল সংস্কার সংস্কার বলিয়া চীৎকারে কোন ফল নাই। যাঁহারা প্রস্কৃত স্বদেশাসুরাগী এবং স্বজাতিবৎসল, তাঁহারা স্বদেশের বাহুশোভা সৌন্দর্য্য বর্জন অথবা স্থনীতি-সম্মত নির্মাবলী এবং কঠোর শাসনের প্রতি তত লক্ষ্য রাথেন না। তাঁহারা সমাজের নির্মাদি গঠন প্রচলন ইত্যাদিতে মনোনিবেশ না করিয়া সামাজিকগণের হালয়ের উন্নতি ও চরিত্রের গঠন বিষয়ে অধিক আরাস স্থীকার করেন। দেশবাসিগণ সত্যবাদী সাধুশিষ্ট না হইলে, সহস্র কঠোর নির্ম পঠিত, প্রাচীন গৌরব প্রচারিত এবং বিত্যাবৃদ্ধি ধনরত্ব ইত্যাদি অব্যক্ত হালেও দেশ-উন্নত হয় না।
- (৫) বিপন্নকে উদ্ধার করিলে, দরিদ্রের পর্বকৃটিরে প্রবেশ করিয়া সহারবিহীন মুমুর্র পিপাসাক্লিষ্ট বিশুক্ত মুখে এক গণ্ডুয় ছল দান করিলে,

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কিষা সমবেদনার ভাহার অশ্রুর সহিত্ত আপনার অশ্রু মিশাইতে পারিলে, ত্র্ভিকপীড়িত নিরাশ্রুয় মানবের সংজ্ঞাহীন ক্ষীণ দেহ আপনার হৃদয়ে ধারণ করিয়া ভাহার মুখে অয় ভুলিয়া দিলে, লোকে নিন্দা না করিয়া বরং আনন্দে আপ্লুত হইয়া সেই দয়ার অবতারের পূজা করিতে স্বতঃপ্রন্ত হয়। কিন্তু কি হুর্ভাগ্য! অভিমান এবং লোকলজ্জার ভয় ভাহা করিতে দেয় না। ইহাকে কুসংস্কার ব্যতীত আর কি বলা যাইতে পারে ?

(c) সেদিন খুলনা হইতে একখানি ট্রেণ ক্রভবেগে এক ভগ্নস্থান অভিমুখে আসিতেছিল। একজন ধীবর সেখানে মাছ ধরিতেছিল। সেশত শত লোকের আসন্ন মৃত্যু দেখির। গাড়ী থামাইবার জন্ম আপনার পরিহিত বস্ত্রখানা উদ্ধে উত্তোলিত করিয়া ইতন্তত সঞ্চালন করিতে লাগিল। কিন্তু ড্রাইভার সে সঙ্কেত বৃথিতে পারিল না। গাড়ী ক্রভবেগে আসিতে লাগিল। আর ছ এক মিনিট পরেই সমস্ত যাত্রী সহ গাড়ী নদীগর্ভে শতিত হইবে। ধীবর নিজের প্রাণের মায়া ভূলিয়া গেল। সে গাড়ীর সমুখে আসিয়া দণ্ডায়মান হইল এবং বস্ত্র সঞ্চালন করিয়া সঙ্কেত করিতে লাগিল। ড্রাইভার সমুখে একজন মহুষ্য দণ্ডায়মান দেখিয়া গাড়ী থামাইল। ধীবরের ধর্মবৃদ্ধিতে শত শত লোকের প্রাণরক্ষা হইল।

ASSAMESE TEXT (FOR MALE CANDIDATES).

Paper-Setter-Srijut Ambikanath Borah, M.A.

Fixaminer-Srijut Banikanta Kakati.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Give the story of Rukminiharan in Assamese as narrated by	14
Sankardev.	
2. Under what circumstances did Laksmikanta come to the house	10
of Chandiboruah and how was he imprisoned?	
3. Either, Give an account of the Battle of Hdira.	10
Or, Give the substance of the conversation between Hala-	•
kanta and Jatiababa.	
4. Explain with reference to the context:-	

Either.

তহঁতিবে আছগৈ আগহিতে তাত, হাটকবা ৰূপে মাথো বেহাবলৈ হাট, ভবিবলৈ ইপুৰিত ঘটবলৈ বিভ, ছদিনৰ নিমিজেহে আছ প্ৰিৰীত।

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(a)

Or.

জীবনৰ সোঁবে বাঁবে আছে ছটি ৰাট, পৰিছাহি ভোমালোক তাৰে দোমোজাত, ওলমিছে ভাল বেয়া নৰ জীৱটিৰ, বাচনিৰ ওপৰতে সেই ছয়োটিৰ।

(b)

Either,

কুণ্ডিনৰ হস্তে মোৰ আসিছে চৰীয়া।
আলোচিল বীৰগণে বিৰলে বসিয়া॥
যদিবা মাধৱ আসে আমাৰ সমাজ।
সিংহাসন নিদিবোহোঁ পাউক বৰ লাজ॥

Or.

উঠ উঠ বাপুতই তেজ ইটো মর্ম।
লাজ অপমান ক্ষত্রিয়ব কোন ধর্ম।
হাবিয়া জিনম্ন কহো জিনিয়া হাব্য।
সর্বাকালে সংসাবত কাবো নাই জয়॥

5. Translate into English:-

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যুদ্ধলৈ অহাৰ আগেরে হলকাস্ত বৰুৱাই মনত চটা ভাব লৈ আহিছিল। একভাব আছিল যে তেওঁ যদি বৰ্ফুকনক লগ পান্ধগৈ তেন্তে তেওঁ বৰ্ফুকনৰ ফলীয়া হৈ মানৰ লগত ৰণ দিব, আৰু সেই ৰণত যদি জিকিবহে পাৰে তেন্তে তেওঁ বৰ্ফুকনৰ প্ৰিয় পাত্ৰ হৈ বৰ নগৰীয়া বৰুৱা যুদ্ধলৈ নহাৰ বাবে কথা লগাই বৰ্ফুকন আৰু ৰজাৰ হতুৱাই বৰ্নগৰীয়া বৰুৱাৰ বিষয়খান গুচাই সেই বিষয় তেৱেঁ লব পাৰিব।

6. Explain any one of the following:-

- (a) সাহিত্যৰ সোৱাদ আনবিলাক মিঠা বস্তুৰ দৰে নহয়! আন বস্তুৰ সোৱাদ জিভাবে পাওঁ, আন বস্তুৰ ৰূপ চকুৰে দেখো. কিন্তু সাহিত্যৰ সোৱাদ মুখৰ জিভাবে নেপায়, তাক মনেৰে চাকিব লাগে, তেহে তাৰ ৰূপ বা সোৱাদৰ পম পোৱা যায়। সেই দেখি জিভা নোহোৱা মাহুহেও সোহিত্যৰ ৰকম বুজিব পাৰে। কণায়ো তাৰ ৰূপ দেখি ভোল যায়।
 - (b) একদিন বংসক চৰান্তে নাৰায়ণ।
 ক্ষোষ্ঠ ৰাম সমে প্ৰবেশিলা বুলাবন॥
 সেই সময়ত যত ধেকু নিৰস্তৰে।
 চৰায় গুৱালে গোবৰ্জনৰ শিখবে॥
 বিদ্ৰৰ পৰা পাছে বংসক দেখিল।
 মিলিল আনন্দ স্বেহে চেতন হৰিল॥

আনন্দতে আপোনাক পাসৰি লৱড়ে। বেগে ঝাম্পদিয়া পৰ্বতৰ পৰা পৰে॥ ওসাৰৰ স্ৰৱে হুধ লৱড়য় পালে। দেখি লাঠি তুলি আগ ভিটিল গুৱালে॥

7. Frame short sentences with the following phrases:—
হাত-লৰ, পেট-টেঙৰ, ভাতে-ভড়ালে, মুখ-টোকা, চকু-চৰহা।

8. Correct the following sentences:-

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(a) তোমাৰ দেউতা কলৈ গল ? (b) ডাঙৰীয়াট আহি বহিছে। (c) ৰাম চকিত বহি চাহ থাইছে। (d) তুমি খাব আহিলে ইয়াতে বহিবি। (r) পুৱাভেনাও এবিব।

ASSAMESE TEXT (For Female Candidates).

Paper-Setters— { SRIJUT SURYYAKUMAR BHUIYAN, M.A. MR. BANIKANTA KAKATI, M.A.

Examiner.—MR. J. N. DOWERA, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate any two of the following passages into English:-
- (a) তেওঁ তজনা ভাষা বিয়া কৰাইছিল। প্রথম জনাই এটি পুতেকক স্থাৰ পোহৰলৈ আনিয়েই এই জগতৰ পৰা বিদায় লোৱাভ ল্ৰাটি বুঢ়া মাকৰল্বাৰা প্রতিপালত হৈ ডাঙৰ হয়। তেওঁৰ নাম বোগেশ্বৰ আছিল। তেওঁ বছকাল সংসাৰৰ স্থ্য ভোগ কৰিবলৈ নেপালে।
- (b) ভাষা শিকিবৰ ঘাই উপায় হৈছে ব্যাকৰণ আৰু অভিধান।
 কিন্তু যদিচ অসম দেশত অসমীয়া ভাষা বহুকালৰ পৰা চলি আহিছে তথাপি
 এই দেশেৰ কোনো লোকৰ দ্বাৰা তাৰ ব্যাকৰণ আৰু অভিধান ৰচিত
 ভোৱা নাই। এই কাৰণে ১৭৮১ শকত তেওঁ এখন ব্যকৰণ ৰচনা কৰে।
- (c) লাজ পাই স্থীয়েকে মাতিলে আকউ—"কিয় কৰা সীতা দেবি বিষাদ মনত অৱখ্যে বামৰ হাত শিলৰ নিচিনা, তুলা যেন পাবা কিন্তু তোমাৰ দেহত্ত—ৰদত পৃথিবী ফাটি হয় ছিটাছিট, কোমল পছমো কিন্তু ৰুদেৰে নিৰ্শ্বিত।

- 2. Either, Give a short account of Hem Chandra Barua's life 16 from the autobiographical note included in your text.
- Or, Write out the story of Alexander and Diogenes and point out the moral.
- 3. Explain with reference to the context any three of the following passages:—
- (a) একে চিনে আছে ছবি একো নাই হোৱা বহুদিন,—বহুদিন উৰিও নেষায়।
- (b) পৰিত্ৰ অনুৰ যাৰ দাপোণৰ দৰে, স্বৰ্গৰ প্ৰতিবিদ্ধ ভাতে আহি পৰে।
 - (c) ভেতিয়াৰ পৰা তেওঁৰ নাম "একাচেকা বৰুৱা" হ'ল।
 - (d) "হেমকোষ" অসমীয়া ভাষাৰ পক্ষে সঞ্জীৱনী মন্ত্ৰ:
- 4. Frame sentences illustrating the uses of the following idiomatic phrases:—

কাৰে কাৰে; কপাল ফুল; চকু চৰহা; দাত লগা; গা ভোল।

- 5. Name and account for the case-endings in the words under- 16 lined:-
 - (a) সি ল্বাকালৰ প্ৰা ব্ধিয়ক।
 - (b) ইয়াত বাজে মোৰ আৰু একো নাই।
 - (c) হাহা-হুহু নামে এজন গন্ধৰ্ক আছিল।
 - 6. Give the feminine forms of the following words:—

 ভক্ষা; ডফলা; ধোবা; কপৌ; কাকভী।
 - 7. Translate any two of the following passages into English: 25
- (a) হাকিমে গছক স্থাধিলে, "গছ! সঁচা কথা কবি; ধনথিনি কোনে নিলে? থোৰঙৰ পৰা মিছাৰামে কলে, "সাধুৰামে"। হাকিমে আকৌ স্থাধিলে, "কোনে ?" আকৌ উত্তৰ পালে "সাধুৰামে"।
- (b) এজন ৰজা আছিল। তেওঁৰ বৰ মৰমৰ ধোবা এটা আছিল। তাৰ নাম ৰাজকুমাৰ। ধোবাটোক তেওঁ কামত ইমান ভাল পাইছিল যে সি ষেতিয়াই ষিহকে লাগে বুলি খুজিছিল তাতে তেতিয়াই পাইছিল।
 - (c) পৰ্ব্বতৰ ওখ টিং দেখি হেৰা লবা, উঠিবলৈ হেলা নকৰিবা ; ছখ নকৰিলে স্থখ ক'ত পাবা তুমি ? যদ্ধকৰা ৰদ্ধক লভিবা।

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HINDI TEXT (FOR MALE CANDIDATES).

Paper-Setter and Examiner-Mr. Nalinimohan Sanyal, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate two of the following passages into English:-
- (a) जो लोग सौ सौ मिन्नत-समाजत करके अपने मेली मिलापियों से घोड़े हाथी ऊँट मंगनी मांग लेने हैं, मोटियों को भाड़े के कपड़े पहनाकर तिलंगा बनान हैं और फिर डंका बजाते निग्राम उड़ाते सारे नगर में गली गली अपने लड़कों की बरात समाते हैं उनको लजाना चाहिये।
- (b) कालाकां कर भूलने की वस्तु नहीं है, वह छोटासा रम्य म्यान. सचसुष स्वर्ग का ट्लाड़ा था। उसमें रहने का समय भूखर्ग में रहने के समय की भांति था। चिन्ता बहुत कम थी, वासनाएं भी इतनी न थीं, विचार भी सीमाबहु स्थान में विचरण करता था।
 - (c) राम-नाम बिनु गिरा न सोहा।
 देख विचारि त्यागु मद मोहा॥
 वसन हीन निर्हं सोह सुरारी।
 सब सूषण-सूषित वर नारी॥
 राम विसुख सम्पति प्रभुताई।
 गई रही पाई बिनु पाई॥
 सजल सूल जेहि सरिता नाहीं।
 वरिष गये पुनि तबाह सखाहीं॥
 - Either, Describe the interview of Hanuman with Sītā.
 Cr, Describe the causes which led to the failure of Dara.
 - 3. Explain two of the following with reference to the context:- 16
 - (a) बोती वीरतायें, बात उनकी बनातीं कैसे, धूलसे श्री तृषा-तूल से जो गये बीते हैं। उनको रगों में भला विजलो भरेगा कौन, बात के कड़े जो बार बार सुख सोते हैं। लोहा कैसे लिन हाथ कांपता है लोहा द्ये, शांख कैसे लह होतीं लह घंट पीते हैं॥
 - (b) सब जग पालि जियावत जोई। जायो तुमस्ट देवि महि सोई॥ भूप प्रजापति सरिस खदारा। मीरध्वत्र स्प पिता तुम्हारा॥

भई बह्र तिनके घर माही। जहुँ हम चक् दिनपति गुक् चाहीं॥

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- (c) गो इसके जोड़ का दूसरी इसीन भीरत शाही रगमहल में एक भी नहीं है, खिलिन यह बड़े ताजुब भीर अफ़सोस का सुकाम है कि नाक़दरे, हिएमाधि के पूरे भंधे भीर उजड़ शाहज़ादें ने इसे भाज पांच बरस से छोड़ रकता है।
- 4. Are robbery and violence justifiable under any circumstance? Is there any extract in your text-book from any author which has dealt with the subject? What do you gather from a perusal of the extract? Discuss in Hindi.
- 5. (a) Distinguish between simple, complex and compound sentences, giving examples of each.
- (b) Write sentences to illustrate the various idiomatic uses of 10 ভৱৰা and ভৱৰা।
 - 6. Re-write the following correctly:-

सुमी देखते ही छन्हों ने चल दिये। रानी ने कही कि हम कुछ सुनना नहीं चाहती। रावण के मीत का ख़बर पाकर देवताणं खुश हुआ। जितने खाल पीले फलें हैं सबको तोड़ लाओ। जितने लड़कोयां पढ़ती थो सब के सब ने पास कर गई।

7. Translate the following passage into Hindi :-

To the north of Benares, between the Himalayas and the Ganges, stretches the country now known as Avadh, whose name long ago was Kosala. In the whole world perhaps can be few other lands so beautiful as was this, for it abounded in corn, in cattle, and in forests, and all its people were prosperous and in peace. Kosala had great rivers, fair places of pilgrimage, and noble cities. I hough she was surrounded on every side by powerful kings, she was the jewe: among the kingdoms.

HINDI TEXT (FOR FEMALE CANDIDATES).

Paper-Setters— { Mr. Sibnarain Lala, B.A. , Sakalnarayan Sharma.

Examiner-Mr. Ambika Bajpai.

Candidates are required to give their unswers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English one poetical and one prose passage 25 from the following:—
 - (a) राजन राखर नाम जसु, सब बिममत-दातार।फल-चनुगामी-मिडप-मिन, मन-चिमलामु तुन्हार॥

सव विधि गुरु प्रसन्न जिय जानी। वोलेख राख रहसि सद वानी। नाथ रासु करियहि जुबराजू। कहिय क्षपा करि करिय समाजू। मीहि षक्त यह होइ उक्काइ। लहिं लोग सव लोचन-लाइ। प्रसु-प्रसाद सिव सबद निवाहीं। यह लालसा एक मन माडीं।

(b) राम-विरष्ट-सागर महं, भरत मगन मन होत। विप्र- इप धरि पवन-सुत, चाद गयल जनु पीत॥ वैठे देखि कुसासन, जटा-सुकुट क्रस-गात। राम राम रप्पर्यत जपत, सवत नयन जल-जात॥ देखत हनुमान चित हरवेल। पुलक-गात लोचन-जल वरवेल। मन महं वहन भाँति सुख मानी। वोलेल सवन-स्था-मम बानी।

- (c) घाधी रात के समय उन्होंने कृदक नामक सैक्क से कंटक नामक भन्न मंगाकर भीर उस पर सवार इंकिर पूर्व दिशा का रास्ता लिया। मार्ग में घन जंगलों, सुनसान मैदानों घीर घनेक क्रोटे-मोटे नदी नालों को पार करके वे कोलिय राज्य में पहुँचे घीर वहाँ से घनामा नदी के किनारे गए। वहाँ उन्होंने घपने धरीर पर दो-एक साधारण वस्त्र रखकर श्रेष वस्त्राभूषण तथा घन्न कंदक को देकर उसे इठ-पूर्व कापिलवस्तु को वापस भेज दिया।
- (d) चाप सर्वेत्रेष्ठ ब्राह्मण जाति के हैं। चन तक जो कुछ मैंने प्यव किया है वह हिंदू-धर्म चौर हिंदुचों की रचा के लिये किया है। साचात् भवानी देवी ने सुभी चाजा दी है कि गा-ब्राह्मण की रचा कर, हिंदू देवालयों की तोड़ने चौर हिंदू देवताचों की सूर्ि-खंडन करने का बदला ले तथा हिंदू धर्म के विदेषियों का संहार कर। जगदंबा की इस चाजा से ही मैं इस कार्य में प्रवृत्त हुचा हूँ। चाप जैसे सर्वेत्रेष्ठ ब्राह्मणों की सहायता की इस कार्य में प्रवृत्त जावस्था तथा है।
- 2. (a) Give the opposite genders of any five of the following words:—

बेटा. बेल. भेंस, पिता, कुत्ता. माली, मोर, देवी, बुढ़िया and बिह्या।

- (b) Join the following three sentences so as to make one simple sentence:—
 - (i) मैं घर गयी; (ii) वहां पच्छी तरह भोजन किया; (iii) छसके बाद तुरत यहां चकी पायी।
- 8. (a) Decline মাই or ভাৰু in both numbers in the nominative, objective, and possessive cases.
 - (b) How are adjectives compared in Hindi? Give examples.

- 4. Make sentences using five of the following expressions:—
 रातीं रात, दिन दिन, हिये का अन्धा, साथ दीना, भागवबूला ही उठना,
 जोम में भाना, रीव गांठना, पीके लगा देना, बात की बात में, and कानीं पर जूं
 नक्षीं ने गांगा।
- 5. Describe in your own words in Hindi the social rites and customs of India in the time of Lord Shrīkrishna.
- 6. Either, Give in your own words in Hindi a brief estimate 10 of the character of Vibhīshan.
- Or, Describe in your own words in Hindi the scene in Ayodhyā when Shrī Ramchandra returned from exile.
 - 7. Correct all errors in any five of the following sentences:- 10
 - (a) कितना लडकी वहां खेल रही है।
 - (b) राचसी सब सीताको बहत खर दिखाई।
 - (c) तुम कीन शहर में रहता है।
 - (d) प्रतापने अपना किताब लेकर चल दिया।
 - (e) जनक राजा को एक श्रीर बेटी थी जिसकी नाम उर्मिला थी।
 - (f) इंदेक लडकाकां एक एक रूपये दी।
 - (a) मेरे चाचाजी उसे एक किताब दिये हैं।
 - (h) तैंने बोला था कि सभी मेरे घर जाने हांगा।
 - 8. Translate any two of the following passages into English:
- (a) कुछ मनुष्य यह कहते हैं कि क्षियों को कभी न पढ़ाना चाहिए, क्योंकि यह नई बात है; पुराने समय में स्तियों नहीं पढ़ती थीं। क्या उस समय के लोग मूर्ख थे जो उनको नहीं पढ़ाते थे? यह इन लोगों का सम है। स्तियों को विद्याद्दीन देखकर प्रसन्न होनेवाले मनुष्यों से पूछना चाहिए कि यह उन्होंने कैसे जाना कि पहले स्तियां नहीं पढ़ती थीं। क्या वह नहीं जानते कि अगस्य, विश्व चादि महर्षियों की स्तियां लोपासुद्रा, चनस्या, चवंसती चादि वहीं पंडिता थीं?
- (b) राजकुमार एलबर्ट श्रीमती महारानी के राज-काज रूँभाखने में सदा सम्रायक रहते थे। प्रातःकाल चाय पौकर छपवन की सेर को जाते और वहां से भाकर भपना नित्य नेम करके चिवकारों में लगे रहते थे। दीपहर के पीक्षे महारानी का प्रधान मन्त्री भाता, उसके साथ वह प्रतिदिन राज का काम करती थीं और सायंकाल गाड़ी में दैठकर भपने पति, माता भथवा और स्विशों के साथ वाहर सेर की जाया करती थीं।
- (c) हिन्दुसान में पहले कोई नहर न थी। पाँच सौ वरस हुए मुसलमानीं की समय में फ़ीरोज्ञ्याह ने एक नहर िवालिक पहाड की पास यमुना की पिष्टम तट से निकाली थो। उसकी तीन सौ वरस पीई शाहजहाँ वादशाह ने उसी नहर की बढ़ाया भीर देहली में चाँदनीचीक की बीच से लाकर यमुना में निलाया। इन्हों दिनों एक दूसरी नहर थमुना के पूरव तट से निकाली गई को ससकी बनानेवाली मलीवहीं खाँ की नाम से प्रसिद्ध है।

ORIYA TEXT (For FEMALE CANDIDATES).

Paper-Setters— { Mr. Priyaranjan Sen, M.A. ,, Artaballabha Mahanti, M.A.

Examiner-MR. PRIYARANJAN SEN, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate any two of the following passages into English:
- (a) ରାଜକାର୍ଯ୍ୟ ପରିଚାଳନରେ ରାଶୀ ଅତ୍ୟୟ୍ୟାଙ୍କର ପ୍ରଣ୍ୟବନୀୟ 35 ପାଞ୍ଚକ ଥିଲା । ସେ ପ୍ରତିଦିନ ନିର୍ଦିଷ୍ଣ ସମୟରେ ଧର୍ମାଧିକରଣକୁ ଆସି ବିଚାରାଷନ ପ୍ରହ୍ମସତୂର୍ବକ ନ୍ୟାଯ୍ ବିଚାର କରୁ ଥିଲେ । ଅର୍ଥୀ ପ୍ରତ୍ୟର୍ଥୀଙ୍କର ବ୍ୟବହାର ଆମୂଳ ନିଳେ ପ୍ରବଣ କରି ରହିଁର ଯଥୋଚିତ ପ୍ରତିବିଧୀନରେ ପୂପର ହେଉ ଥିଲେ । ଧନୀ ବା ବଳବାନ୍ ପ୍ରତି ପ୍ରବାପ୍ରଦର୍ଶନ ଏବଂ କିର୍ଧନ ବା ଦୁର୍ବଳ ପ୍ରତି ଅନାସ୍ଥା ପ୍ରଦର୍ଶନ ତାହାଙ୍କର ଅନୁମୋଙ୍କର ନୁହେ । ଅଭିରିକ୍ କରର୍ମାରରୁ ପ୍ରକାମାନଙ୍କୁ ଅବ୍ୟାହ୍ତି ପ୍ରଦାନ ଏବଂ ରୂମ୍ୟଧିକାରୀ-ମାନଙ୍କର ସମ୍ପର୍ଷିରଣା, ଏ ଉର୍ଯ୍ପ୍ରତି ତାହାଙ୍କର ତୀଣ୍ଣ ଦୃଷ୍ଟି ଥିଲା ।
- (b) ନିବାରେଣ୍ୱର ଏହିପରି ଦୀନ ରିଖାରୀ ବେଶରେ ଅରଖ୍ୟକୁ 15 ଅରଖ୍ୟ ବୁଲି ଦିନଯାପନ କରିବାକୁ ଲାଗିଲୋ ତଥାପି ତାହାଙ୍କର ଅଧନର୍ନ୍ଦ୍ୱ ଶିଳେ ମାତ୍ର ୫ଲିଲା ନାହିଁ —ସେ ନିଳର କଷ୍ଟ୍ରକୁ ଅତିହୁକ୍ତ ମଣୁ ଥିଲେ, ତାହାଙ୍କ ଅନ୍ତରରେ କେବଳ ଏହି ଦୁ:ଖାନଳ ପ୍ରଭ୍ୱଳିତ ହେଉ ଥିଲା, ଯେଉଁ ଚିରାଣ୍ଡିତ ଅନୁତର୍ଗଣ ତାହାଙ୍କ ଲାଗି ପ୍ରାଣ ବିସର୍ଜନ

କରିବାକୁ ପ୍ରସ୍ତୁତ ସେମାନଙ୍କୁ ସାମାନ୍ୟ ଫଳ ମୂଳ ରକ୍ଷଣ କରି ଘୋର କ୍ଲେଣରୋଗ କରିବାକୁ ହେହ ଅଛି ଏବଂ ସ୍ୱକୁ୬ୁମ୍ବବର୍ଗ ଅସ୍ୱପ୍ନ ଅନଣନରେ କାଲଯାପନ କରୁ ଅଛନ୍ତି ।

- (a) ରାଖୀଙ୍କର ପ୍ରାଶ ବିନାଶ କରିବା ନିମିତ୍ ଅଧରସିଂହ୍ର ହ୍ୟୁ 15 ଚଳିଲା ନାହିଁ। ସେ ଆକୁଳ ହୋଇ କ୍ରନ୍ଦନ କରିବାକୁ ଲାଗିଲା ଏବଂ ରଖରୂମିରୁ ପଳାଇବାପାଇଁ ବାରମ୍ପାର ପ୍ରାର୍ଥନା କଲା। ଦୁର୍ଗାବରୀ ପୃଷିତ ଶତ୍ରୁସମୟରେ ପୃଷ୍ଠରଙ୍ଗ ଦେବାକୁ ସମ୍ମୃଦ ହେଲେ ନାହିଁ। ସେ କହିଲେ "ମୁଁ କି ଛାର ଏହି ନୀବନ ଲାଗି ପବିତ୍ର ଛତ୍ରିଯ୍ଧର୍ମକୁ କଳଙ୍କିତ କରିବି?'' ଏହା କହି ଦୁର୍ଗାବତୀ ସ୍ୱୀଯ୍ହସ୍ତରେ ନିଳହୃଦପ୍ତର ତୀଣ୍ଡୁଛୁରିକାଘାତ କରି ମାନବଲୀଳା ସମ୍ମୃତ୍ୟ କଲେ । ତାହାଙ୍କର ମୃତ୍ୟୁସମ୍ଭ୍ରର ସେହି ରକୃପ୍ୟୁବିତ ସମ୍ପରଣେ ତାହାଙ୍କର ଛଥନ୍ତମଣ୍ଡର ସମ୍ପରଣ ବ୍ୟକ୍ତିତ ରଥନ୍ତମଣ୍ଡର ସମ୍ପର୍ଥନାନ ଥିଲେ ।
 - 2. Write a note on what you learn from 'aga'.
- 3. Give a short account of the life of Pratap Sinha as 15 is given in the *Prabandha Patha*.
- 4. Give general rules for forming feminines from 10 masculines in Oriya, and quote examples.
 - 5. Explain the following in simple Oriya:— 8
- (a) ହକୁମୁଣଦ୍ୱାର। ଏାଁନ୍ଦ୍ରକାଲିକ ଲଘୁହସ୍ତରା ଶିକ୍ଷା କରି ପ୍ରରିପକ୍ଷ୍ମ ପାରରେ ଲୋକନେତ୍ରରେ ବିଷ୍ମପ୍ତ କନ୍ନାଇ ଦିଏ । ଅର୍ଧ୍ୟାସଦ୍ୱାର। ଯୋଗୀ ନକଦ୍ୱାର ନିରୋଧପୂର୍ବକ ପ୍ରାଶବାଯୁକୁ ସ୍ୱବଣରେ ରଖି ନାନ। ଲୋକୋତ୍ତର କର୍ମମାନ ସମ୍ପାଦନ ରରନ୍ତି ।

- (b) ହେ ଅନକ୍ତ ମହାପ୍ରରେ।! କେ ପାରିକ କର୍ଣ୍ଣି ବୋର ମହିମାର କଥା; ଅପାର ଅଗନ୍ୟ ତତ୍ତ୍ୱର ଅତୀତ, ବିରୋ। କି ବୁଝିବ ମୁହିଁ, ଜ୍ଞାନ ବୃଦ୍ଧି ପରାଜିତ ତୋ ତତ୍ତ୍ୱଚିନ୍ତାରେ।।
- 6. Write sentences to illustrate the use of the following words:—

ମୁଣ୍ଡୁହୁଁ, <mark>ଆଣଯ୍, ଅଜାନୀ, ଦୋଳକ, ଆନୁପୂର୍ବିକ, ସ</mark>ିଷ୍ଠକ, ଅବଶତି, ଚତ୍ସ୍କଳ ।

7. Rewrite the following in elegant and correct 7 Oriva:—

ବୂତ। ସରସଦ୍ତୀ ଧାଁ ଧଧଃ କରି ହାଲିଆ ହୋଇ ନଥ କରି ରାମମାହାନୀ ପୀଞ୍ଚାରେ ବଣି ପଡ଼ୀଲା । ଦାମେଇ ଲେଙ୍କା ନୂହାର ହୋଇ ବୋଇଲା, ଗୋସେଇଁ ଜଣ ପୋ ମାଧ ଗୋସେଇଁ କଣ ଅମାନିଆ ହୋଇ ଘରୁ ହୁ କରାଲ । ବୂତା ପାକଲ ଆସ୍ପ୍, ଖସି ପଡ଼ିବ — ବିକିଏ ଉକେଇଲେ ନାଦିଁ । ହାଁ ଗୋସେଇଁ କଳିକାଲିଆ ହୁଆଙ୍କୁ ପାରି ହବ ନାହିଁ ।

8. Expound the following samāsas:—

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୍ରରାତୃଷ-ହାରାର୍ଥୀ, କଥାଳନାଳାବଳଯ୍ବତ, ରିକ୍ଷାଥାନ୍ତହସ୍ତ, ହେମୋକ୍ଲୁଲରଣ୍ଜିକାଳ, ଦ୍ୱାଦଣବର୍ଷୀପ୍, ପ୍ରଶଯ୍ବିକନୋଚିତ, ଘନୀରୂତ,

ଚିର୍ପରିଚିତ୍ର ।

BURMESE TEXT (FOR MALE CANDIDATES).

Paper-Setter and Examiner-Maung WE Lin.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

II အောက်ပါလက်ာနှစ်ခုအနက် တခုကို ရွေးကောက်၍ အင်္ဂလိပ်လို အဓိပ္ပါယ်ပြန်ပါ။

10

သ္ရွိမဟုတ်။

အဓိပ္ပါယ်သွားမပျက်စေဘဲ သင့်ကေားဖြင့်မြန်မာလိုရေးလိုလျှင် လည်း ရေးပါ။

- (သ) ဝသန်ကာလ။ မိုးကျတည့်လျှင်။ ပျော်ပျော်ပါးပါး။ မယား နှင့် ဆွေငယ်လင်။ လက်ဘွဲဝယ် ခြေဝင်။ ကိုယ်တွင်အဝတ်။ ပုဆိုး အင်္ကျီ။ စုတ်ပံ့ပြီ။ ချည်နိုဗေါင်း ထွတ်ထွတ် ကယ်နှင့် လေး။ ။မိုးရေစွတ်လွှဲ။ အငတ်ကယ် မပါ။ သားသမီးကို ကိုယ်ထီး ပွေ့လှုံသာ။ ဆေးတံတထွာ ကိုက်ကာ ထွန်ရင်း။ လယ်ခွက်ကယ် အခွင်။ထွန်ရေးငင်။ရေဝင် ပုဇွန် တွင်းငယ်နှင့် လေး။ ။ဖါးပေါင် စင်းငယ်။ ခြင်း ပလိုင်းဝယ်။ ခရုပ်လော ရော နှော ၍သာ လွယ်။ ဟင်းနွက်ကယ် နုနယ်။ တသွယ် ကန့်စွန်း။ ဆူးပုပ်ကယ်ကင်းပုံ။ အလုံးစုံ။ ဖူးဝုံသာရော၍ ပြမ်း သည်နှင့်လေး။
- (ခ) မွှေးလှကြိုင်လန်း။ မေတ္တာပန်းကို။ ဦးစွန်းထိပ်စွန်။ ဆင်ခဲ့ပန် မှ။ ပွဲရန်သဘင်။ ဒေါသစင်လည်း။ အောင်မြင်စေလော့။ သ ပြေ ဆွတ်ခွန်။ ရွှေမင်းဝံ တောင်။ ကျွန်းညွှန့် သောင်ထက်။ ဆောင်ဆောင် ရွှေနန်း။ မြင်းမိုရ်ထွန်းသွှိ။ သွန်းသွန်းရောင် ဟုံ။ မျက်ကိုးစုံနှင့်။ ပိုင်းအုံနတ်ကူ။ တည်တော်မူသည်။ ဆင် ဖြုနာဂ။ဆဒ္ဒန္တလည်း။နတ်သစက်အောက်။ လစဉ်ရောက်၍။ နတ်လောက်ကညာ။ တိုင်းအတည်တည်။ ပြည်အစွဲဖွဲ့။ ထီး တိုင်းတို့ကာ။ ဆက်ပွဲနိုယံ။ သစ္စာနှံ၍။ ကျွန်ခံထာသည်။ ေ။ ရတနာပူရ။ သားတော်မြေးမြစ်။ ညွှန့်သစ်စည်ပင်။ ရာဇဝင် အခေါင်။ တပေါင် ကြွေးဟစ်။ ထွန်းရာဖြစ်သည်။ အောင် သေဋ္ဌတု။ ။ရွှေဝပြည်ကြီး။ ပြည်ပြည်တိုင်းနောင်။ အုပ်စိုး သောင်ရသည်။ ပွင့်ရောင်ညီးကို။ မြှင့်ချီးမြှောက်တင်။ဤစာ

သက္ကရာဇ်။ ဘုန်းတော် သစ်၍။ နှစ်နှစ်ဆယ်ကျော်။ ရာက

II စနည်

· III. (m)

IV. (n)

8ပ္ပါယ်ဘော်ပြပါ။

10

ပေါ့ လျက်။ သက်တော့ရှည်မှု။ ပန်ထွာပြသည်။ အောင်ဆ	3
ဆင်လျက်။ မင်္ဂလာ ကြီး။ ဟောစာ ကြယာ။ ဩဘာ ကျူ ဟိက်။ နိခဲတ် အရှည်။ နိုင်ဝံ စ ည် သ ည် ဟု။ နော်ပြည် ကြ	
ညောင်း။ ဘေးတော်လောင်းတို့။ မေါင်းစလွှယ်ခွာပ်၊ စွဲချ	ร์ ถ
ယပ်နှင့်။ ခ၁ဝ်ကြည်ရွှင်။ မင်းရင်ပြင်မှာ။ လျှော တ်တင် ခြီး	มี ว
သည်။ ။ . ကရေးမှီး။ ခရှင်မြောင်းမျိုင်း၊ ခရေးမြောင်ရှိသူ၊ ခရေမျိုးရသည် မြေး	3
	. 0
စနည်းနှင့်တဘောင်ဆိုသည်မှာ အဘယ်အရာများကိုဆိုသဲနည်း။	r 8
အယူတော်မင်္ဂလာ အမတ်သည်။ မည်သည့်ဘုရင် လက်ထက်	Ş
ပေါ် ထွန်းသနည်း။ ။၎င်းအခတ်ဆင်ခြင်ကောက်ယူတင်လျှောက်)
ယော စနည်းတဘောင်များ အနက်ဘခုခုကို ရွေးချယ်၍မည်သည်	2
အခါ မည်သည့်အဖြစ်အချက်နှင့်စပ်လျဉ်း၍မည်သို့ဆင်ခြင်ကောက်)
ယူကြောင်း ဘော်ပြပါ။	
(က) ဝိဇည်ပြဇာတ်ကို မည်သူ ရေးသားသနည်း။ မည်သည့်ဖာစ	ol 2
ပေါ်ထွန်းသနည်။	
(ခ) မြတ်စွာဘုရား ပရိနိဗ္ဗာန် မစံ ယူခို လက်ာဒီပ ကျွန်းနှင့် စ	S 3
လျဉ်း၍။ မည်သို့ဗျာဒိဘ်တော် ထားခဲ့သနည်း။	
(ဂ) ထီးတင်တဲ့ ပုံ။ ကိစ္စကုန်လျှင်။ မစုံခမက်။ ငြန်းကိုဖျက်။ ၂၅	§ 4
စကားကို ဝိဇယပြဇာတ်တွင် မည်သူက မည်သူအား ပြေ))
သနည်း။အဓိဂ္ဌါယ် မည်သို့ဆိုလို သနည်း။	
(ဃ) မဏိမေခလာ နတ်သ္မီး၏ အလု ပ် ော်ဘရားမျ ားကို ဘေ	S 3
ပြပါ။	, ,
_	.
(က) ဘူရီဒတ္က် ဇာတ်တော်ကြီးကို မည်သည့် အကြောင်းနှင့် စ	δ 2
လျဉ်းရွှိ ဟောတော်မူသနည်း။	
(ခ) ဘုရားလောင်း ဘူရိဒုတ်သည် ပုဏ္ဏား သားအ ဘကို မခ	§ 8
သည့် အကြံ့အရွယ်ဖြင့် နဂါး ပြည်သူ့ ပို့ဆောင်၍ ကြီးစွဲ	ာ
သောစည်းစိမ်၌ ထားသနည်း။ ၎င်းအကြံ မည်ရွှေမည်မျှ ဒ	ю
ထမြောက်ကြောင်း မည်ရွှေမည်မျှ အထမမြောက်ကြောင်	:
အကျဉ်းအားဖြင့် ဘော်ပြပါ။ ။၎င်းပုဏ္ဏား သားအဘင	χ _γ
၏ သဘောထား အကျင့် စာရိတ္ထများကို နှိုင်းယှဉ်ရှိပြပါ။	1

အောက်ပါ စကား အသီးသီးကို ရှင်းလင်း ပြည့် စုံစွာ အ

လောက်န္တရက်င္ခရာ၊ ။သရမ္သာသီ၊ ။ခ်ီးနဘ်။ ။ခန္မႊမြီးကောက် ကျည်ခတာက်ဖွဲ့ပါ။ ။ ဂဘိခလႊပါး မလို ဘိစၥး။ ။ ဥပသကား။ ။သ^{န္တာ}မှ နိုင္ဖီး သို့ရောက်။ ။

- VI. (က) ကရုဏ ကာရက ဝိဘက် အမျိုးမျိုးကို စဘင်္ဂြန္ခ်ိုး အသီး 6 အသီး မည်သို့ အဒိပ္ပါယ် ထူးခြားကြောင်း စုံလင်စွာဘော် ပြပါ၊
 - (ခ) မည်သည့် နှစ်များကို နာဗ်အစား အသုံးပြုနိုင်သနည်း ျဉဒါ 6 ဟရုဏ်တခုစီပေးပါ။
 - (ဂ) အောက်ပါနာခြာသေသန အသီးအသီးကိုပါဤကခု^{ရွ}တွင် **6** သုံး၍ပြပါ။ ခဝ်သိမ်း။ ။စိုးစည်း။ ဟေကာ။ ။တိုင်း။ ။ အတို့၊ ။အကြင်။ ။
 - (ည) အောက်ပါ ကြိသာဝိသေသနအသီးသီးကို ဝါကျ**ာခုစိတ္မ**် န သုံး၍ပြပါ။

ယင်းသို့။ ရုံ။ ချည်း။ အလျှင်း။

(c) ပါဋ္ဒိစကားနှင့် မြန်မာစကားကို ပေါင်းဆက်ရွှိရသောကြိယာ 3 တို့ ၏ ဥဒါဟရုဏ်ခြောက်မျိုးတော်ပြပါ။

25

\mathbf{VII}_{\perp} အောက်ပါ စာပိုဒ်ကို အင်္ဂ λ ပ်လိုပြန်ပါ။

ငါ့ယောက်ဖတော်ဘုရားသည် ရွှေနန်းတော်မှန္ဒါတော်မူ၍။ နတ် ဘုံမာန်၌ စမွှါယ်တော်မူသည်။ ငါ့ယောက်ဖတော်အရိုက်အရာကို သိမ်းမြန်းတော်မူ၍။အသီးအသီးခန့်အဝ်တော်မူသည်မှာ။ဝန်ကြီးဝန် ထောက် စာရေးကြီး။ ပြည်ရေးရွာမှမှစ၍။ ဆင်းရဲသားကျွန်တော်မျိုး တို့တွင်။ တရားစကား အလုအယက် မငြိမ်မဝပ် ခိုက်ပွါး ရန်စည်ရှိ သည်များကိုလည်း။ ကြင်ကြပ်တည်းတည်းခန့်ထားစီရင်ရမည်။ပြည် ကြီးဝန်ကို ခန့်အပ်တော်မူသည်လည်း။ ရာဇဓမ္မလောကပစ္စုပွန်။ သံ သရာစီးပွါး။ ငါးရှိသားတော်အစဉ်။ မြေးတော်အဆက်။ မြစ်တော် အညွန့် အစွန့်စည်ပင်ပြန့်ပွားမည်ကို။ သကျွမ်းနားလည်သည်နှင့်။ အမှုကို ကြင်ကြပ်တည်းတည်း စီရင်ရမည် အပ်ထား၍။ ဝန်ကြီးဝန်ထောက် စာရေးကြီးတို့အရာနှင့်။ ငါ့ယောက်ဖတော် မင်းတရားကြီးတို့လက် ထက် ပြစတော်မူသည်။ ကြပ်ကြပ်တည်းတည်းအခွင့်ရောက်သည်ကို စီရင်။ မသင့်သည်အမှုကို။ ငါ ဗျာဒိတ်တော် ထွက်ရှိမိသော်လည်း။ ဝန်တို့က စိစစ်၍ ရှိခိုးသံတော်ဦးတင်။ BURMESE TEXT (For Male Candidates).

ADDITIONAL PAPER.

Paper-Setter and Examiner-Maung WE LIN.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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malarjunge gagner neg الم يوسل الم المعالمة المعالمة المعالمة المود د ها مرد عمد سر ملاء: م بالدرك مر مرد ريد م وأع مسر دسون درمه بي ماع و معدو كارا ولماس دراو دصر سال ، ركون لمار يهي سي من - مه في ه على سالح ل مي ولكن لالح مي ومن مالي " درن کا بلانه د صاس م ب رکن د د المراد عا و ده م ال مل ه د دو الا مراد روي ما سي د که ماله ما و کاري د عدور ى دى دارى كى كالماللة للهاي ما كى دى دى es by u werd die djes djen u d ه من د کلمود و حصوماً على و كافي " م م 30 E . e.d.

وعدس هي و ما ي معلي الم يا سره الماء الماد سرك ال 12 II (m) my de . 2010 mo . 2000 is em (m) وعد مان ، و دهمال منا في شود " قان في موعده مرا سو: سند " رکاند مي د خالد مرايه ځې (4) con als: Char. 32 man or of will mar دع سركسه مرمية المحادة المرمي مس مارا الحر مه م ما به ما و الله الله و ال ي سردس الحي الم مردي من في الله مال مار م عرسلا سعلي سا دو وعل ها بلس ور ي ي

- غر سو می دسال می . کون در می گورون ها شعر در سر در دون ۱۵ بی بی بی بی را میدس رکونی هدی د سه بی رونی ۱۸ (س) بیالی عمر دد عر دصر کونی مگو ها قر سی بی بی ا

مل سل عماني عد هو دس هي -

م د عسرون ها . معن معن ش کان سی ای فی می 10

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6

(م) رکی مسوده ما مسر دهاد: حصر رک می س مسوده ما مسود ما به محرامه به ما ما عد ما و معرار و

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· VII com IN or go of of of one of of one ساد: دسون ها ما مصلی سل مرس سه سام مور سال: دسون ها ما مصلی سل مرس سه سام سام ente mer eleme en et magge zelli. bre ورسي فاي سلد: لا يعلم موي ال محديد عنه مد مد مد . Wil wieg. sedralse fedry if " here ال المعلى عرفي الله المعلى عود مال عمل جه معاد همار عه همد رك رهن رهن و حص سر مار ده عد مور معر معر ما ه مار م د مصر و به نمان من مار با في و مر ه رسي الحربي الحوي مي مي ه جي ال كر في يصر المادي دور و حرسازهد مع ممرا مرا وور مع دلما ما دصاي ساق رضو لم د و مل مل في وعدم Allunder on Congration on song grant at when A سسر سل مع في المسال ها وي وي وي در هي در مل عاس م سا ه في سروسي الماسي ما سري في سا وي و ال عد مر سال ما معن عمر ما و دعد و لما هم ورز م معلى مهر dt ce you alse sur A dicti of si con المران عاط ما المحاسم في والا عاص م م م م الم المراد وسده زده سرساز ود سام سمون مدوم الله الرودين مع د الحروب الم و مع المارية المارية المارية المارية المارية المارية المارية المارية المارية الم همد مهاد سر و ده و و و و الماد من الماده دو من عالم الم مالي ال معدل المس مع مسالي مواسي : (المع معه مه

TAMIL TEXT (FOR FEMALE CANDIDATES).

Paper-Setter and Examiner—Mahamahopadhyay Vedantavisarad Anantakrishna Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

 $1. \quad (a)$ கல் × கண் θ , (b) பொன் × தொடரு, (c) கல் × தால், 15 (d) கல் × பலகை, (e) பல × அரசர், (f) கண் + %ர்.

இவற்றை புணர்சிநூற்களுடன் புணாச் செய்க.

- 2. சல்வியும் × சுற்பும் என்ற விடயத்திலொழுகி யோர் வியாஸ 15 மெழுதுக.
- 3. இராமசந்திரன், யுதிட்டிரன் இவர்களது சரிதங்களால் தெரிந்**த 1**5 கொண்ட \$திகளும் கடமைகளும் யாவை ?
- 4. ஆரியமதோபாக்கியானத்தை யொட்டி தாழே காணும் நீதிமொ 20 ழிகளே நன்றுய் விளக்குக.
 - (α) செய்வன செய்தலே சிறப்பு உண்டக்கும்.
 - (b) மோனமென்**பத** ஞானவரம்பு.
 - (c) தெய்வம் இகழேல்.
- 5. `பாண்டவர் வாரணுவதம் செல்லுத‰ ஆதியோடந்தமாய் விண 15 சிக்குக.
 - 6. Translate into English the following passage:-

ஒரு ஸன்யாஸி ஒரு ககரத்தையடைந்ததம், பொது சத்திர 20 மென நினத்து அரசருடைய அரண்மீனக்குச் சென்முன். சற்று கேரம் கழித்து இரைப்பாறவதற்காக ஐமககாளத்தைப் பரப்பிஞர். அதைப் பார்த்து சில காவலர் இக்க இடத்தில் என்ன வேலமென்று கேட்டார்கள். இன்ற இச்சத்திரத்தில் இருப்பதாக எனது கருத்து என்ற ஸன்யாஸி உத்தரம் சொன்ஞர். காவலர்கள் கோபத்துடனிது அரண்மீனயென்ற சொல்லி வெளியே போகும்படி சொன்ஞர்கள். இதை கவனித்துக் கொண்டிருக்க அரசன் ஸன்னி பாஸியிடம் வர்து புன்சிரிப்புடன் இது பார்வையில்லேயே சத்திர மல்ல இது ஒர் அரண்மீனமென்ற தெரியவில்லேயா என்ற சன்

TELUGU TEXT (For Female Candidates).

Paper-Setter and Examiner-Mr. B. BAMCHANDRA RAU, M.A.,

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. "లమ్మీ త్రానాదము" చదుళుటవలన ఉపిదలు గ్రహింత వలసిన 20 సీతు లెక్వి జాం చ్రాయుడు.
- 2. "జాతీయవిద్య" ఆగేనేమి. తృగ్హుతము మీరు ేనర్భకొను 20 విద్యకును జాతీయ విద్యకును తారతమ్య మేమి.
- 3. " $(\frac{1}{2}, 3)$ க $_{3}$ " ಸ್ಪೃದ್ಧಿ పొಂದುಟಕು ಹುವಿಧ ಮನ ವಿಧಾನ ಮಲು ನಿರ್ಯ 20 మింప వలెనూ వ్యాయడు.
- 4 " సాంకేతిక విద్య" ఆన సేమి. దానియొక్క ఉపయోగములు 20 ఉదాహరించుచు వ్యాసము న్రాయుడు.
- 5. ''లమ్మీతసాదము''లో వర్గింత బడిన నంఘస్థితెని శూర్చి 20 విఖలము 🖚 ్ర్మాయుడు.

URDU TEXT (FOR MALE CANDIDATES).

- KHAN SAHEB REZA ALI WAHSHAT.

MAULVI MAHFUZUL HAQ, M.A.

,, MD. YUSUF.

Examiner-KHAN SAHEB REZA ALI WARSHAT.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English either (a) or (b) :-

20

(a) جب سيتا جي ك جمال ركمال كا أوازه تمام أريورت مين پھیل کیا تو دور و نزدیک کے راجہ انکے خواستکار ہوئے ۔ مگر رام

2. Translate into English either A or B, and give explanations where necessary:—

A

کرے **دشمن**ے کوئی تم سے اگر

جہاں تک بنے تے کرو درگذر

کرو تم نه حاسد کی باتون په غور

جلے جو کوئی اسکو جلنے دو اور

اگر تے سے هوجائے سرزہ قصور

تو اقرار تربه کرر بالضرور · بالضرور · بدی کی هر جسنے تمہارے خلاف

جو چاھے معانی تو کودو معانی نہیس ا بلکہ تم اور احسان کرو

بھلائی سے اسکس پشیمسان کور

10

В.

دانه خرمن هے همین قطرہ هے دریا هم کو

اّ علی جزمین نظر کل کا تماشا هم کو
اس بلندی په دیا چرخ نے پہنچا هم کو
که فلک آنا نظ, خال سے چهراتا هم کو
اُن پہنچی سر گرداب فنا کشتی عمر
هر نفس باد مخالف کا هے دهوکا هم کو
هوسکے لاغربی رضعف کہان مانع شوق

تیری جانب پر پرواز هین اعضا هم کو

3. Give the meanings of any ten of the following words:— 10

تقرير - مانع - مطالعه - مهارت - سيام - احسان - ميلان - مشاغل - رقتاً فرقتاً - اكارت - رحلت - التفات - بوالهوس - ضعيف العقل - مسكن -

4. Give the gender of the following words:-- 10 - كوشش - دريا - دنيا - شربت - درا - پياس - تعظيم - انصاف - زبان - خيال -

5. What is اسم تصغير How is it formed in Urdu? Give 15 examples.

6. Translate into Urdu:—
Our village is small, but it has a school of its own. There is a tank in front of the school. You will see some fine trees around it. There is also an open field near by. Boys play there in the evening. There is a small flower-garden in the school compound. The boys work in it by turn. They love their plants dearly.

URDU TEXT (FOR MALE CANDIDATES).

ADDITIONAL PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:—

اهلیا بائی - یه نیک سیرت بائی سندهیا کے خاندان سے تھی - ۱۷۳۵ ع میں پیدا هوئی - ملہار راؤ هلکر کے سنتے سے اس کی شادمی

ھوئی - ابھی بیس برس کی بھی نہ ھونے پائی تھی کہ بیرہ ھو گئی - اس کا شوھر اپنے باپ کے سامنے ھی اس جہان سے انتقال کو گیا - صرف ایک لڑکا اور ایک لڑکی یادگار چھوڑے - ملہار راؤ کی رفات کے بعد اس کا پرتا جانشین ھوا *

2. Either, Give in your own words the story of Sultan Nasir. 10 ud-Dīn.

or, Give the summary of the poem عدر اخدا میرے ساتھہ ہے

3. Translate into English:

جہاز پر میرے همکلاس تین صاحب تے - ایک ایرانی ورئی درانی ایرانی میں انگریز سمجھا - باتین کونے ارمنی ایرانی سمجھا - باتین کونے سے خیال ہوا کہ فرنچ ہیں - بعد میں معلوم ہوا کہ ایرانی ہیں اور رطن آقا محمد نمازی شیرازی نام هے - شنگھائی سے آ رهے هیں اور رطن جا رہے هیں - شنگھائی مین بہت بڑے تاجر هیں - یہ سن کو مجعے بہت بڑی خوشی ہوئی - شیرازی صاحب اپنے ملک کے شیدا تے - دیر تک باتین ہوتی رهیں - درنوں آرمنی بمبئی مین تجارت کرتے هیں اور اپنے رطن بصرہ کو آ رہے هیں - یه درنوں آرمنی انگریزی توپی پہنتے تے - بصرہ پہنچتے هی ترکی توپی پہننے لگے - میں نے پوچھا تو کھا '' هم ترکی رعایا هیں - لہذا همیں یہان ترکی توپی پہننی ضروری ہے'' *

4. (a) Give the Urdu plurals of any four of the following:— 4 بندة - گهتری - شاخ - نعمت - کنول - خوشبو

(b) Give the genders of any five of the following:-- 5

كهنّا - تبسّم - تمنّا - شربت - كهي - مالا - زبان

(c) Correct the following sentences:—

ميرا كتاب چوري هو گيا - مين قهاكه سے آئے هين - تمهارے نوكر كو بلا دو - هم كهانا كهائے هيں - إس كا گهر ميں إس وقت كوئي نهيں هے - مجهكو كل سے بخار آتي هے *

5. Translate into Urdu:—

A very poor man went to a very rich man, and said, 'We two

are sons of Adam and Eve, therefore we are brothers; you are very rich

and I am very poor; give me a brother's share.' The rich man, on hearing this, gave to the poor man one pice. The poor man said, Oh, sir! Why do you not bestow upon me a brother's share?' He replied, 'Be content, my good friend; if I give all my poor brothers one pice each, I shall not have anything remaining.'

URDU TEXT (FOR FEMALE CANDIDATES).

Paper-Setter-Mr. S. Khuda Bukhsh, M.A., B.C.L., Barrister-at-Law.

Examiner-KHAN SAHEB REZA ALI WAHSHAT.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:--

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هميشه اپني نظر ميں سبک ميں رهتا هوں

ديا هے اوروں کي نظروں ميں گو وقار مجم

کبھو هے جي ميں نه گذوا خيال سرتابي

برنگ سايه بنايا سے خانسان مجم

تمهارے وعدے بتان خوب ميں سمجهتا هوں

رها هے ايسے هي لوگوں سے کار و بار مجم

يهه کون برق تجلي هوا هے آفت جان

که ایک دم نهیں جوں شعله اب قرار مجم جفا ر جور تو ظالم سبهي گوارا هیں مگر یهه اسم جدائی هے ناگوار مجمع

2. Translate into English:-

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شاعر قدرت کے دیوان میں ایک سے ایک مضموں نیا ہے مگریہ اطیفہ بھی کچھہ کم نہیں کہ شاعری کا چراغ دکھی میں ررشی ہو۔ اور ستارے اس کے دلّی کے افق سے طلوع ہوا کریں - اوس عہد کی حالت اور بھاشا زبان کو خیال کرتا ہوں تو سوچتا رہ جاتا ہوں کہ یہہ صاحب کمال زبان اردر ارر انشاء ہندی میں کیونکر ایک نگی صنعت

کا نمونہ دے گیا اور ایٹ پیچے آنے والوں کے واسطے ایک نامی سرک کی داغ بیل قالتا گیا *

8. Translate into Urdu:-

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'Of all things that have life and sense we women are most wretched. For we are compelled to buy with gold a husband who is also—worst of all!—the master of our person. And on his character, good or bad, our whole fate depends. For divorce is regarded as a disgrace to a woman and she cannot repudiate her husband. Then coming as she does into the midst of manners and customs strange to her, she would need the gift of divination—unless she has been taught at home—to know how best to treat her bed-fellow.'

KHASI TEXT (FOR FEMALE CANDIDATES).

Paper-Setter and Examiner-MR. Roy Rowland Thomas, M.A.

Candidates are required to give their answers in their own words as far as practicable.

Answer Questions 3, 5, 8, 9, and any other TWO.

The figures in the margin indicate full marks.	
 Iathuh ia ka Phawer kaba don kane ka jingsneg. 'Don ki ba'm suk ban ngat tang ma lade khlem da pynngat ia kiwei ruh ha kajuh ka jingsniew. 	15
2. Iathuh khana ia ka Phawer shaphang U Kulai, U Masi had U Ksew.	15
3. Explain with reference to the context:—	20
 (a) Duk-suk-Riewspah-Jynjar-trah. (b) Tang uba ngi la pynmong uba lah ban map pat ia ngi. (c) Namar ka syrngiew u bred ia met. (d) Ynda la sliah ia ka iktiar wat u siem hi u kylla riew 	
madan.	
4. Lada la proh ka buit kumba saphup ka tmoh me la dei ban da peit shuwa ba men ryngkoh. Iathuh ia ka Phawer jong kane ka jing kynthoh.	15
5. Explain with reference to the context:	26
(a) La bunsien ruh nga iohi te Sha iew ka leit ban siew. Ka dei ka Rngai, ka Puri, ne Ka Thwei ki jingphohsniew.	
(b) Ka Prem-miet pat ka wallam ia Ka khmat ba jaw ka syep Ban phuhmat, bad ban rykhic sngewbha Sawdong ka Lyngwiar Trep.	
6. Iathuh ha ka ktien bajem kumno u nongthoh jong phi u thoh padiah shaphang ka Pyrem.	15

7. Iathuh shaphang ki sim jong ka Svnrai Sohra kat kum u

nongthoh jong phi.

8. Translate the following passage into English:-

Ka umsaw shisien ka la lam ia uwei u myrsiang uba mut ban ingi sha shilliang wah, bad ka la lynthaw ia u shapoh ka kshaid, te u la mynsaw la jam jop, tang ba um pat iap. Ynda kham harum ka la kyntait ia u sharud um, bad hangte u la thiah lytar. Khala khala ki skain ki la wan ia boi ban kjit ia ka snam na ka jingmynsaw jong u. Te u dingkhied uba iaid najan nangta, ba u sangsot ia u, u la mut ban ia beh lem ia ki. Hynrei u myrsiang u la nghuh arti arjat ia u, u la ong, 'Ieh, ieh, kynrad ksiar, wat pynthut ia ki.'

9. How are the distributive numeral adjectives formed in 15-Khasi? Illustrate your answer fully.

PORTUGUESE (For Female Candidates).

Paper-Setter and Examiner-P. Braganca Cunha.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate any two of the following passages into English:

(1) Tu não és, ch mulher, só a obra-prima de Deus, tambem o és a dos homens: estes exornam-te com a belleza dos seus corações.

Tecem-te os poetas os veus com as fios d'oiro da sua phantasia; immortalism os pintores a forma do teu corpo.

O mar dá as suas perolas, as minas o seu oiro, os jardins de varão as suas flores, para te embellezarem, para te cobrirem e tornarem-te mais preciosa.

O desejo dos corações humanos derramou a sua gloria sobre a tua juventude.

Tu és meio mulher e meio sonho.

(2) Era no mez de Maio. O calor suffocante do meio-dia parecia infinitamente longo. A terra secca bocejava de sede. Quando ouvi uma voz chamar, do outro lado do rio:—" Vem, meu bem amado."

Fechei o meu livro e abri a janella. Vi um grande bufalo, com os flancos manchados de lama, que passava a beira do rio, fitandome com os seus olhos placidos e pacificos. Um rapazito, na aqua ate aos joelhos, chamava o para tomar o seu banho. Sorri, interessado, e um doce calor me afflorou o coração.

2. Explain in Portuguese in a few words what Tagore wishes to convey in the following:—

Não sepultes dentro de ti, minha amiga, o teu segredo. Diz m'o só a mim baixinho.

Murmura-me o teau segredo, tu que tens um tão meigo sorriso. Ouvi-lo-ha só o meu coração, e não os meus ouvidos.

A noite é profunda, a casa silenciosa, os ninhos das aves estão engolphados no somno.

Diz-me o segredo do teu coração por entre as tuas vacillantes lagrimas e os teus perturbados sorrisos.

3. Write a short story in Portuguese about "The Monsoon."

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20:

OK.

4. Translate into Portuguese:—
Which of the boys is the one whom you like best?
What did you think of when doing this task?
Look at those flowers how beautiful they are!

5. Write your impressions on Rabindranath's "Jardineiro d'Amor."

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Examiners-

10

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MR. NARENDRANATH CHAKRABARTI, M.A.

.. MOKSHADACHARAN CHAKRABARTI, M.A.

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,, SRISCHANDRA DASGUPTA.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, What strikes you as the most interesting episode in the lesson 'শকুন্তনার পতি-গৃহে ৰাজা'? Show why you give it preference.

Or, Briefly tell the story of Kabuliwalla by Rabindra Nath

Tagore.

2. Explain with reference to the context one passage from each of the following four groups:—

Group A.

- (a) ষেখানে স্নেকের বন্ধন নাই, প্রেমের টান নাই আত্রের ছেলের মন্ত কথার কথার আবদার করিতে গেলে সেখানে শুনিবে কে ? তৃই একবার ভিক্ষা মিলিবে, তাহার পর উপহাস বিজ্ঞপ, অবশেষে সম্মার্জনী।
 - (b) তব ভাল উদ্ভাসিয়া এ ভাবনা তড়িংপ্রভাবং এসেছিল নামি।

"এক ধর্মরাজ্য-পাশে খণ্ড-ছিন্ন বিক্ষিপ্ত ভারত বেঁধে দিব আমি।"

GROUP B.

- (a) একটা সমগ্রক্ষাতি কেবল, রামমোহন রায়, শারকানাথ ঠাকুর, দেবৈজ্রনাথ ঠাকুর, কেশবচন্দ্র সেন, মালাবারি বা রমাবাঈএর ছাঁচে ঢালা হবে -এমন আশা করি না। কিন্তু তা' বলে, যে দেশের মধ্যে এই সব মহৎচরিত্র লোক জন্মগ্রহণ করেছেন, সে দেশের জাতীয় চরিত্র উপেকা করবার নর।
- (b) এখন দেখি, এ বেগ আমার একার নহে; যে সময়ে উঠানে ছারা পড়ে, নিত্য সে সময় কুলবধ্র মন মাতিরা উঠে; জল আনিতে বাইবে; জল আছে বলিলেও জল ফেলিরা জল আনিতে বাইবে।

GROUP C.

- (a) গভীর তোমার কাজল-নয়নে ছল ছলি' জল পড়িছে এদে' ভপ্ত বনানী ডাকিছে তোমারে— দাড়াও ক্ষণেক ফুলের দেশে।
- (ঠ) রাবণ আমাকে ইভিপূর্বেই নিহত করিয়াছে, আমাকে পুনর্বার নিধন করিবার চেষ্টা তোমার শক্ষে উচিত নহে।

GROUP D.

- (a) কাবা-মন্দিরে কোলাহল উত্থিত হইল। দয়ার্ক্র চিত্ত তামিন পরিবারের লোকেরা দৌড়াইয়া আসিয়া তাহাদিগকে শক্রর কবল হইতে রক্ষা করিল। তাহাদের তাদৃশ সাহাষ্য না পাইলে মোহম্মদ ও তদীয় অম্বচরবর্গের প্রাণনাশ ঘটিত।
 - (b) দৈক্তের মাঝে আছে তব ধন, মৌনের মাঝে রয়েছে গোপন ভোমার মন্ত্র অগ্নিবচন, ভাই আমাদের দিও। পরের সজ্জা ফেলিয়া পরিব ভোমারই উত্তরীয়।
- 3. Give the gist of the lesson কাজ করা by Bhudev Mukherjee in your own words.

4. Correct all errors in the following:-

তথন আষাড় মাস, বাগানে কৃদ কুস্মগুলি ধীরে ধীরে সৌরভ বিকাশ করিতেছিল, বৃষ্টি ধারায় দল গুলি আদ্র হওয়াতে মনে হইতেছিল কোন স্থানরি স্থায় মুখখানি শীতল জলে ধুইয়া যেন উন্থাণে আসিয়া দারাইয়াছেন। আকাশের গায় মেঘগুলি কখনও পশুমুণ্ডের স্থায়, কখনও পাহাড় খণ্ডের স্থায়—কখনও বা স্থান্ত ফুল মালোর স্থায়—ইতন্ততঃ বিক্লিপ্ত ভাবে সমীর চালিত হইয়া উপবিষ্ট হইতেছিল। অদ্রে গলাত্তরক টেউ সহকারে বেগে ছুটিতেছিল ও সান্ধ্য-বায়ু হলিতে হলিতে পবনের সলে ক্রিয়া করিতেছিল।

5. Fill up the blanks in the following:-

তোমার — পালন করিতে আমি কৰে — হইয়াছি ? তুমি আমার প্রতি বে সকল — আনরন করিয়াছ, তাহা সর্কৈব —। তুমি আমাকে — রূপে জানিয়াও বে এরপ — ধারণা করিতে পারিয়াছ, ইহা বড়ই — বিষয়।

- 6. Amplify the idea contained in any of the following:---
- (a) বে মাটীতে পড়ে লোক উঠে তাই ধ'রে' ওই বাক্যাট শ্বরণ করিয়া তোমার নিকটে বে স্থবিধা উপস্থিত তাহা প্রত্যোধ্যান করিও না।

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- (৫) আলো সম্বন্ধে শত শত বক্তৃতা করার অপেক্ষা সামাস্ত .একটা দেশলাইএর কাটি আলাইলে ৰক্তব্য বিষয় বেশী পরিষার হইবে।
 - 7. Translate into Bengali:-

Chaitanya was born on the 18th of April, 1486. His father Jagannah Misra was originally a native of Sylhet. He had married Sachi Devi—daughter of Nilambar Misra. Later he came to Nadia to prosecute his studies in Nadia tols and settled there. Jagannath was a pious man, who cared not for wealth. He lived an austere life following a high spiritual standard. People who were not as erudite and capable as Jagannath followed lucrative avocations and hoarded wealth. Sachi Devi, his wife, once told him to follow their example and amass a fortune. Jagannath in reply pointed to the birds of the sky and said: 'These birds are perfectly happy, they sow not, nor do they reap. They depend on their heavenly Father who supplies them with food. Learn the lesson, oh wife, of sweet resignation. Earthly riches will not give that contentment which one gets by leading a life of spotless honesty and absolute reliance on the Lord.' Sachi was pleased with the answer, for she too had an ascetic temperament and valued faith and renunciation above everything else. Chaitanya was born of such noble parents.

8. Write an essay on any one of the following subjects:-

(a) The advantages and disadvantages of living in a large city. Facilities of union; medical treatment; education and trade; epidemics; want of domestic feeling and sympathy; lack of discipline and spiritual training; risk of catching revolutionary ideas.

(b) Which of the six seasons of Bengal do you love best? The climatic condition, scenery, communication, diseases, flowers and

fruits, food.

(c) Life and work of any one of the following three men:
-(a) Akbar, (b) Asoka, (c) Sivaji. Family, environment at birth, gradual development of power, special features of character.

· HINDI.

Paper-Setters— { Mr. Nalinimohan Sanyal, M.A. , Dinanath Sarma, M.A., B.L.

Examiner—PANDIT SIRNARAYAN LALA

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate two of the following passages into English, giving the context in each case:—
 - (त) सुनह बिनय सम बिटप प्रश्नोका । सत्य नाम कर हर सम श्रोका ॥ नुतन किसलय प्रनल समाना । देह प्रतिनि सम करह निदाना ॥ कपि करि हृदय बिचार, दीन्द्र सुद्रिका खरि तव । जनु प्रशोक पंतार, दीन्द्र हरिब छठि कर लियो ॥

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- (b) सुन्दरी के सुर को भकार की तुलना नहीं हो सकती घी— उस खा में पाणीं को व्याकुलता सूर्तिमतो हो रहीं थी। स्थान, काल, गायिका का कप, उसका वेदनामय खार— इन सभीं ने मिलकार एक अपूर्व भाव का संचार किया था। विपुल जनसंघ उस भाव से सब्ध और तन्त्रय हो गया था।
 - (c) कीट कहते हैं ए वनेंगे कीट पावस की, लतें कहते हैं खतें इनके उड़ावेंगे। टूब कहती है दूब दावेंगे ए दांतों तली ट्राथ कहते हैं इन्हें ट्राथ सा बनावेंगे। तृल कहती हैं ए उड़ेंगे तृल-पुंज सम, धल कहती है धल में ए मिल जावेंगे॥
 - 2. Explain two of the following with reference to the context:-

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- (a) चिंताञ्चाल श्ररीरवन दावा लगि लगि जाय। प्रकट धर्वा न'हं देखिये छर श्रंतर धुंधवाय॥
- (b) सियकर परधर-रहन-चवाऊ।

 यद्पि किये वह मिटन उपाऊ॥

 फैलत फिरि पुरजन महँ कैसे।

 दबी देह क्कुर विष जे से॥
- (c) आगे खड़ी रानि मग माहीं।
 पीके भूप मनहं परकाहीं॥
 सोहत बीच चेनु यहि भांती।
 सभ्या सङ्ग मनहं दिन राती॥
- 3. Either, What is करण रम? Explain the expression ईद में 12 महर्रम। Show that the extract ईद में महर्रम in your text-book breathes an air of करण रस throughout.

Or, Write, after Nazir, the story of the birth of Srikrishna.

4. Give in Hindi the substance of the following in not more than fire lines:—

जान ससुद्र है, जोर यत्य उसपर हिलोरे लेता हजा सुन्दर जहाज़। जान मूर्य है, जीर पुस्तक हमारे घर को प्रकाशित करनेवाली किरगें। जान मोने की खान है, जीर यत्य हैं हमारे जह की शोभा बढ़ानेवाली सुनहली गहने। जान बाय है, जीर यत्य वाय को चलाकर उंडक देनेवाली पंखे। जान चित्र है, जीर प्रस्त दीपका। जान चन्न का भांकार है, जीर पुस्तकें उसकी बनी हुई रोटियां।

5. Translate the following into Hindi:-

Four years afterwards the king was in the woods by the Yamunā river. Suddenly a sweet scent crossed his path. What could it be? The king walked along the river bank towards the place from which the sweet scent came, and presently he beheld a celestial maid of fair complexion and black eyes. The king had never beheld

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so beautiful a face. When the maiden saw the king, she turned as if to go. But the king addressed her kindly, and begged her to tell him who she was.

6. (a) Give the meanings of five of the following words:-सीरी, प्रारुख, उल्या, मुटभेड, कोतल, मुलाजमी, कंचुकी, इश्वेश, इमायत, लासानी ।

(b) Use four of the following expressions in sentences of your

तंग या जाना, बाज रहना, नाक सिकोड़ना, फूल न समाना, रोंगटे खड़े हो जाना, मन को कली खिलना, मजा किराकिरा करना किसी काम पर कसर विधिना।

7. Re-write the following correctly:

कल मेरे पिताजी सभी एक रूपिया दिये थे और सभी वह रूपिया से एक अच्छा पुस्तक लीने को कई थे। मैंने कल रात ही में आठ आना का मिटाई खा गया। त्राज सवेरे मैंने राम का भाई ग्याम के द्कान से एक किताब लाई। वह किताब का टाम श्राठ श्राने है।

- 8. Write a short essay in Hindi on one of the following 20 subjects :-
- (a) Idleness is the rust of life.(b) The suitability of industrial education in the present state of India.
- (c) What measures should we take to keep ourselves in health?

ASSAMESE

Paper-Setters— { Srijut Suryyakumar Bhuiyan, M.A. Ambikanath Borah, M.A.

Examiner—Mr. J. N. Dowers, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks

1. Translate into Assamese any one of the following:

(a) Kendu Kalai, a sincerely devout Brahmin, was the appointed priest of Kamakhya temple. So devout was his life that every evening when he performed the usual rites of worship to the accompaniment of ringing bells, the Goddess herself actually appeared in person and danced to the priest's music. King Naranarayana heard of the nightly visitation of the Goddess and was immediately filled with eagerness to glimpse her himself-a vision of the Goddess, so he ed from the famous Bhuyans, belonging to a branch family which thought, would mean eternal bliss for him.

Kamrup. His parents were people of good standing, they were descendnear Nowgong, sometime before Koch supremacy was established in (b) Stee Samkaradev was born in the village of Bardawa

migrated from Dakhimpur to the Nowgong district. Sankar's mother died almost immediately after his birth and the boy was trained at the hands of his grandmother. Even as an infant it is said he showed promise of greatness. He attended the *Tol* of a Brahmin pandit Mahendra Kandali by name and here his teacher also was impressed.

- 2. Explain clearly either চিন্তা প্ৰশ্নৰ ফল or বিন্ধনিত অহ্স্বাৰৰ উৎপাত্ত and give an example if possible.
 - 3. Write a paragraph on ধনৰ ব্যবহাৰ।

4. Explain with reference to the context any two of the following:—

- (a) ৰচকৰ বিভা বৃদ্ধি অমুসাৰে পৃথি সাৰুৱা বা জাবৰুৱা হয়, ঈশ্বৰ বিভা বৃদ্ধিৰ আদি আৰু অন্ত তেওঁ বিভাময় বৃদ্ধি ময় আৰু জ্ঞানময় এতেকে তেওঁ ৰচা বিশ্ব যে সাৰ্ময় পুথি তাক এনেয়ে বৃদ্ধিব পাৰি।
- (b) সংসাৰ এৰি অৰণ্যত ৰাসলৈ কিছু উজু কিয়নো অৰণ্যত প্ৰলোভন, সংসৰ্গ আদি বাধা বিলাক নাই।
 - (c) নম্রতা সজ ব্যৱহারর অমুপান।
 - 5 Give the substance of either poem ছারা-চিত্র ০। মৰমৰ পথা।

6. Explain with reference to the context any two of the following:—

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- (a) মুগুনো বীনাৰ এবে স্থৰ তান লয়,
 বি স্থৰত প্ৰিছিল কঠিন হালয়,
 গহীন জোঁকাৰ হায় ক'ত লীন গল,
 পানীৰ ভূমুক যেন পানীত লুকাল।
- অলমতা পাপ মলি গাব পৰা ধোৱা,
 জীৱন যুক্তি ভাই আগবাঢ়ি ঘোৱা।
- (c) আহাঁ মোৰ চিৰ সঙ্গী, আহাঁ প্ৰিন্ন স্থা, ভোমাৰ মুখকে চাই হুখ পাহৰিম। দিব্যৰূপ ধৰি ভূমি দিবা মোক দেখা, বিদিমা চিভাক মই সাবভি ধাৰম।
- 7. Give the meanings of the following:-

জনজোথ, সোণৰ চেকুৰা, অনুষ্ঠুপীয়া স্থখ সম্পদ, হুৰ্গতিৰ ধামখুমীয়া, প্ৰাকৃতিৰ ক্ষতিপূৰণ স্বভাৱ, স্বতন্ত্ৰীয়া বৃদ্ধি।

- 8. Explain any one of the following:-
- (a) মছলমানক চেচনি বৃষ্ণনি দি চেচা কৰা মানে, মছলমানৰ আগত গলবন্ত হৈ আমার গোটেই দেশখন তেওঁলোকক দান কৰা, আৰু তেওঁলোকক খুজি পাৰিলে কৰতলীয়া হৈ কোনোমতে ৰজা নামটো লৈ পেট প্রৱর্ত্তাই থকা। এনে কার্য্য মই হলে জীয়াই থাকোতে কৰিব নোৱাৰো। চক্রথক সিংহৰ শবীৰত খুন্লাই খ্নসূত্রৰ এটোপা ভেজ থাকে

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্মানে চক্রধ্বজসিংহই মছলমান পাটচাৰ ওচৰত মূৰ নোদোৱাঁয়। এইটো ঠিক। জয়ধ্বজ সিংহ সর্গদেৱৰ দিনত সনা আসামৰ কলঙ্ক সোপা হয় চক্রধ্বজে গুচাব নহয় চক্রধ্বজ সমূলে বিনাশ হব।

- (ঠ) আজি যদি মিলো সবে আসাম নিবাসী,
 পর্বান্ত কি লভাবন, কাটি কৰি থান থান,
 হব পাৰো একে দিনে অট্টালিক বাসী,
 সঞ্চাৰ অসম পাৰো ধনে, সেই দিনে,
 বঙ্গকভো কৰ পাৰো, বম্বেকি মাদ্রাচ আৰু
 সমভাবে চাৰ পাৰো ইংলণ্ডৰ পিনে।
- 9. Write an essay in Assamese on any of the following subjects:—
- (a) ব্ৰহ্মপুত্ৰ নৈ গুৰি — পাৰৰ নগৰ আৰু গাওঁ — খেভি-বাতি — বেহা বেপাৰ—মাজেদি বৈযোৱা দেশৰ বৰঞ্জী।
 - (ঠ) আসাযত কানি।
 - (c) একনা অসমীয়া ভাঙৰ মামুহর জীৱনচৰিত।
 - (d) সৎসঙ্গ।

MARATHI

Paper-Setters- - Prof. D. R. Bhandarkar, M.A., Ph.D.
Mahamahopadhyay Pandit Sitaram Sastri.

Examiner-Mahamahopadhyay Pandit Sitaram Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Write an essay in Marathi on any one of the following: -

(a) The pleasures of reading or a cricket match.

- (b) Your ideal of a happy life or a favourite book of yours.
 (c) The necessity of dharma in the life of a man or of punctuality.
 - 2. Translate one of the following into Marathi:-

(a) Suddenly a bright thought flashed through my mind. Without taking my eyes off the animal before me, I put a double charge of powder down the right-hand barrel, and tearing off a piece of my shirt, I took all the money from my pouch, three shillings in six-penny pieces and two anna pieces, which I luckily had with me in this small coin for paying coolies. Quickly making them into a rouleau with the piece of rag, I rammed them down the barrel, and they were hardly well home before the bull again sprang forward. So quick was it that I had no time to replace the ramrod, and I threw it

into the water, bringing my gun on full cock in the same instant. However, he again halted, being now within about seven paces from me, and we again gazed fixedly at each other, but with altered

feelings on my part.

- (b) Once upon a time there was a king in the north who had won many wars, but now he was old. Yet he took a new wife, and then another prince, who wanted to have married her, came up against him with a great army. The old king went out and fought bravely, but at last his sword broke, and he was wounded and his men fled. But in the night, when the battle was over, his young wife came out and searched for him among the slain, and at last she found him, and asked wehther he might be healed. But he said 'No,' his luck was gone, his sword was broken, and he must die. And he told her that she would have a son, and that son would be a great warrior, and would avenge him on the other king, his enemy. And he bade her keep the broken pieces of the sword, to make a new sword for his son, and that blade should be called Gram.
 - 3. What do you think of महादेव गाहिंद रान है as a social reformer ?

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- 4. Narrate in your own words all the incidents that took place on Kondana, when the fort was captured at midnight by the Marathas.
 - 5. Explain in Marathi the following:-

है वामनैकपद भूमि, नसीनि जंघी

एके दिशौंच दिनराज नभास लंघी॥

वाउँशि वानर विलंघित होय तो कीं

लोकीं नसे नखयश्रस्तुजना विलोकीं॥१॥

ज्याची पदें धरिति देवशिरो ललामीं

स्वाराज्यजी मिर्यवती गजराजगामी॥

तो वजपाणि वहुलीचन कांति भारी

हा पाहिजी तरि वरी नलक्षधांशी॥२॥

6. Parse the following:

थोडासा कोमलपचा हि धरकाचे त्याने मनांत पाणिलें।

7. Give the sense of the following:

दृष्ट मनुष्य भापस्था सवृता उपरोधिक व मस्तरपूर्ण भाषणे वीलूं लागला द्वार्यज त्यांत त्याचा हा एक मोठा हेतृ भसतो कौं, भापस्था प्रतिपन्धाने भापस्थाओं भधरोत्तर करावें, द्वार्यज मग भापस्थें हो गालिप्रदानान्व बाटेल तसे मोडस्थाम स्थास हरकत वाटत नाहीं, प्रभ तोच जर प्रतिपची भगदीं गप्प वसला, तर याखा फार वर्षट वाटून त्या प्रतिपन्धाचा दसपट तिटकारा र्यतो, था प्रमाण हरसभा ची या वस्ती स्थिति भाषी.

TIRTYA.

Paper-Setters- { Mr. Artaballabha Mahanti, M.A. ,, Priyaranjan Sen.

Examiner-Mr. ARTABALLABH MAHANTI, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into Oriya any one of the following passages:-
- (a) The minister went on his way out of the city, and in due time reached the door of his dependant, who received him with every mark of respect. While he was staying as a guest in the dependant's house, he made inquiries respecting the causes of the marvellous wealth and brilliant success which had befallen the dependant. He then learnt for the first time that all this prosperity was due, not to the dependant himself, but to an adopted son, whom he had found in the jungle with one of his feet bleeding from the loss of a sixth toe.
- (b) An English sailor had been confined for several years in French prison; but he was set free at the peace. After reaching London he came across a man who had a number of birds for sale. He, reminded of the long years which he himself had spent in prison, could not bear to see the little creatures thus confined: so he bought the cage and all the birds. The man wondered what he could mean to do with so many birds. Instead of walking away with his purchase, he opened the door of the cage, and began taking out the birds one by one and letting them fly away.
 - 2. (a) Write a note on what you learn from either 20 ନାରୀଯୁ ବାହିର୍ଦ୍ୟ or ପରିମ୍ରମ୍ବର ସୂଷ
 - (b) Explain the title হ্বন্থল What had Ratuamoni 20 to do with the same ' What part was played by Sasauka Deva in the story of হ্বন্ধ

- 3. Explain fully in simple Oriya any two of the following:-
- (a) ଅଦ୍ୟାପି ତାହା ହିଁଦ୍ର ତଗତର ହୃଷ୍ପିଶ୍ରରୂପେ, ବ୍ରାହ୍ମଶ୍ୟଧର୍ମର ସନାତନ ରାଜଧାନୀରୂପେ ଏବଂ ରାରତୀୟ ପାଣ୍ଡିତ୍ୟର ସୁଦୃତ ଦୁର୍ଗରୂପେ ପ୍ରତିଷ୍ଠିତ ରହି ଅଛି ।
- (୬) ପରଣ୍ରୀକାତରତା ଅତି କୂତ୍ସିତ ବ୍ୟାଧି । ସମସ୍ତଙ୍କ ମଙ୍ଗଳରେ ନିଜର ମଙ୍ଗଳ ସଂନିବିଷ୍ଠ ଜାଶି ଯୁଦ୍ର ନୀଚ ଇର୍ଷାରାବକୁ ହୃଦରେ ସ୍ଥାନ ଦେବ ନାହିଁ ।
- (c) ବୃହତ୍ ନଦୀମାନଙ୍କ ସଙ୍ଗମସ୍ତଳରେ, ବହୁଲବୃଷି_{ଧି} ନିରଣବୃଷ୍ ନିକଃପ୍ତ ପ୍ରଦେଶରେ, ଗଳିତ ତୁଷାରାଜୁଳିତ ମେଣୁସନ୍ନିହିତ ଅଅଳରେ ସମୁଦ୍ରକଳର ଲବଶାକୃତା ଅପେଣାଜୃତ ଅଳ୍ପ ।
- 4. Clearly bring out the idea contained in the following 8 stanzas:—
 - (a) ହଠିଲା କୁଃରିନଥାନ ଚେଦି ଧୂମ ସଙ୍କନେ ପରୀୁମାରେ ଆୂମାପ୍ରାସ୍ଟେକ ନିଶିଗଲା ଗଗନେ ।
 - (b) ନରେ କାଦନ୍ସିନୀ କୋଳେ ଇରସ୍କୃଦ ହେମଥିରା ଜିଶି ଦିଖେ । ପ୍ରିଦିବ ଦେବନା ସୁନାସୀରଙ୍କର ଜନକ କାର୍ମୁକ ଜି ସେ ।
 - 5. Construct sentences with the following words:— 7 ଗହୁଣା, ପାଗ, ଉଠିଆ, କୁଆକୁଆ, ଉଷର, କଳାହାଣ୍ଡିଆ, ଚୋରା ।
 - 6. Write an essay in Oriya on one of the following subjects: ... 20
 - (a) Health is wealth.
 - (b) Honesty is the best policy.
 - (c) Jute cultivation.
 - (d) The life of any great man of the past.

NEPALI (PARBATIA).

Paper-Setters— { RAI SAIIIB HARIPRASAD PRADHAN. MAJOR THAPPA.

Examiner-Mr. Surya Vikram Gewali, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into Nepali any two of the following passages :-

(a) As a dog was crossing a brook with a bone in his mouth,

he saw his own image in the clear water, and mistook it for another dog carrying another bone. Not content with what he himself possessed, the greedy creature snatched at the prize which he saw below. In doing so, he of course dropped the real bone, which fell into the brook and was lost! The greedy, grasping at more than they have, often lose even that which they might in peace have enjoyed.

- (b) When the Czar, touched with her noble bearing, asked Catherine if she had anything to ask for herself, she replied that she would be quite satisfied if he would also pardon two poor old gentlemen, who had been kind to her in her exile. Her request was at once granted. Very touching was the meeting between the heroic daughter and the parents whom she had delivered. When she came into their presence, they at once fell on their knees, to thank her but she exclaimed, 'It is God that we have to thank for your wonderful deliverance.'
- (c) An elephant was in the habit of passing over a small bridge leading from his master's house into a town in India. He one day refused to go over it, and it was only by cruelly goring him with a pear that he could be forced to venture on the bridge, the strength of which he first tried with his trunk, showing that he suspected something. At last he went on, but before he could get over, the bridge gave way, and both the elephant and his driver were cast into the ditch. The fall killed the driver, and very much injured elephant.
- Explain and expand in Nepali the ideas contained in one of the following passages :-
 - कपट प्रयक्तन त्याग भैधारी। (a)देमप्रय तिमि लेख खन्चाली॥
 - जान पक सबले उद्ग बाटो। (b) गर्न व्यथे किन यी चिन फाटी ॥

Either, Give a short estimate of the character of Lakshman and Bharat from the Rāmāyaṇa.

Or, Describe briefly in Nepali the progress of Hindu civiliza-

tion during the reign of Vikramaditya.

4. Either, Depict briefly in Nepali the character of Sītā as an 14 ideal of Indian womanhood during the time of the Ramayana. Or, Depict briefly in Nepali the character of Hanuman.

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- 5. Write an essay in Nepali on any one of the following tub 25 jects:--
 - (a) The necessity of physical exercise for a healthy body.

(b) Your favourite animal.

(c) The usefulness of fruit as an article of food

(d) The evils of smoking.

URDU.

Paper-Setters- { Md. Tahir Rizwi. Khan Bahadur Md. Yusuf, M.A.

Examiner-Khan Saheb Maulvi Reza Ali Wahshat

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, Describe briefly Sir Saivid Ahmad's character and habits following closely the account given in your text book.

Or. Write in your own words the main principles to be followed by a student in the course of his study.

2. Give the general purport of the story of مرغ و صيال

3. Explain any two of the following in your own words:- 15

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(۱) گرد اب پر تھا شعلۂ جوّالہ کا گُرماں
انگارے تیے حداب تو پانی شرونشان
مونہہ سے نکل پڑی تھی ھر اک موج کے زبان
تہ، پر تیے سب نہنگ مگر تھی لبوں پہ جان
بانی تھا آگ گرمئی زرز حساب تھی
ماھی حو سیخ آب پر آئی کباب تھی
سرگند اور گواہ کی حاجت نہیں مبعی
مین کون اور ریختہ ھاں اس سے مدّعا
مین کون اور ریختہ ھاں اس سے مدّعا
سہرا لکھا گیا زود امتثال امر
سہرا لکھا کہ جارہ غیر اطاعت نہیں مبعی

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(۰) آکہ آباد ترے دم سے ہے دائم دُنیا اور مثل ہے کہ باُمید ہے قائم دُنیا آگہ ہے تیری ہوا میں دال شیدا گُلشاں لہلہائے ہیں تری یاد میں کیا کیا گُلش مل کے گلیں یہ ہے جہایا ہوا نیرنگ تارا کون سا پہول ہے جس پر کہ نہیں رنگ ترا

4. Fill up the blanks :--

سمجهه صرف باتوں هي _ مُنحصر نهيں هِ بلكه هر قسم ك كاموں _ بهى متعلق هِ كويا همارى زندگى _ همارے تمام كاموں _ رهنما اور همارے لئے قادر مطلق خدا _ نائب هِ *

5. Expand the idea contained in the following: ---

مسرَ**ت ہوئ**ی ہنس لئے در گہے۔ مصیبے پہری ررکے چُپ ہو رہے اسی طور ہے کے نیا رور ریسے

سُسلایا شب کسور کے سسو رہے

6. Translate the following into Urdu:- •

Altamash had taught his daughter Raziya everything that a woman usually knows, and all that a man is taught as well. She was brought up like a prince, and knew all about the affairs of government, and could write and read well. She could ride on horseback and use a bow or sword as well as any of her brothers. While she was still young, Altamash had to leave Delhi with a great army to fight against the Rajputs in the South. He chose his daughter to rule in his stead, while he should be away.

7. (a) Give genders of the following:-

رحمت - شربت - جفا - خطا - رحي - دُهي - ستم - كرم

(b) Use any three of the following in sentences:-

عقل کم هونا - آگ هو جانا - پانی پانی هو جانا - دم بهرنا

8. Write an essay in Urdu on one of the following subjects:—

(a) Town life:—Outlines—Its various advantages:—(i) educational help; (ii) medical help; (iii) society. Disadvantages:—(i)

want of fresh air; (ii) temptations; (iii) annoying noises. Comparison with village life.

(b) Friendship:—Headings—(i) its definition, (ii) its use and advantages; (iii) the friendship of the wicked and the virtuous; (iv) true and firm friendship rare;(v) conclusion.(c) A railway journey or visit to a place of interest.

MANIPURI COMPOSITION.

Paper-Setters— { Mr. Sanjiban Nadia Singh. Mr. Sanjiban Nadia Singh.

Examiner-Mr. RAJKUMAR SETHU SINGH. B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Enther, (a) Show by examples from your text books that for forgiveness is the best instrument to subdue the wicked	•
with.	5
Or, (b) Explain that Manthara worked like an evil spirit upon the innecent mind of Kaikeyī.	.,
2. Either, (a) Give explanatory notes on the evils of	10
তাথীরা অমস্ত্রং মীগী মতৃংদা ঙাংনবা।	
Or, (b) Write a critical note on the great deeds of Bhagya	10
Chandra.	
3. Either, (a) Compare the old beliefs and traditions with the truths discovered by scientific researches of modern times regarding	10
the innermost parts of the earth.	
Or, (b) Give a critical account of the competition between	10
'Khamba' and 'Nongban' for the hand of 'Thoibi' and add a moral.	
4. Explain any three of the following extracts with reference 5	+5
to the context:	+5
ু(a) ভৌইগুম্বং অসুমা মী পুমন্মক্কী অপায়া মানুদ্ধবস্ত	
খৃাইমককী অপাম্বা অমতং পুরা হাঈবস্থ থোইনা লুবা নতে।—মশাগী	
মুঙাইৰা।	
(b) ধনঞ্জৰ—মহাবজ। তেংবানবা হাউবা অসি ঈশ্ববুগী প্ৰবক্তী	

- লোইশংগুম্বন। মহৌশাগী করমা পোৎনা করম্বা মতমদা ধ্বক পাদোক্ত্রনা লৈবা উবগে ? (c) বক্রবাহননা মান্তি পাকলে, মরোল অভ্য ভ্যলবা অর্জুনঙ্গী
- কোক মনিপুরদা তারে। মাসিদা গঙ্গাগী শাপ থুংলে।
- (d) ম্মানা মচা পুমন্মক কোগুনা হাজবুকই 'ন্থোইগী মুবুক্তা **অহানৰা পাবা ঙখা মীনা লাইরিক অসি ফংগনি**।'

u

5. Amplify the following :-চেকশিলগা চেকী যুম শাই, ফালোকলগা মরা শাই।

6. Translate any one of the following into Manipuri:-

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(a) Now this obedient and dutiful daughter never forgot her mother's last request, but each morning and evening took the mirror from its hiding place, and looked in it long and earnestly. There she saw the bright and smiling vision of her lost mother. Not pale and sickly as in her last days, but the beautiful young mother of long ago.

(b) The king turned to the wise men of his court and asked

them what the dream meant. No one could say. At last a good old fakir, who had given away all his worldly goods and lived on alms, replied, 'He is still in great grief because his vast wealth has passed to others, and his eyes still long to look at it."

7. Combine the following short sentences into one sentence:

শকুন্তলা রাজসভাদা চংলকলে। পাত্রমিত্র অঙ্কম অথৌ পুমুমকনা पूमकारे कारेना कमरे। इश्वल मरात्राक्यना त्रिःरामका कमरे। मान শকুস্তলানা উরে। ত্রান্ত মহারাজবু ভক্তিগা লোইননা খুরুমই।

8. Construct five short sentences illustrating the use of five of 5 the following words:-

(a) গৌর্চোন, (b) খেকনা, (c) উশোষ, (d) নিংথৌফী, (e) মুংবং, (f) তেংনোবল, (g) চংনিংলৈমা।

9. Write an essay on any one of the following:-

(a) Travelling: its object—the delights of visiting strange lands-some great travellers of olden times-modern modes of traveling-increase of knowledge-removal of prejudices.

(b) Thrift: importance of the habit of saving-always possible to save something whatever our means-gradual growth of the habit-provision for old age-preparing for the rainy days.

GARO.

Examiner and Paper-Setter—Mr. F. W. Harding, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Answer in Garo four only of the following questions:

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(a) Narrate briefly the story of Ruth.(b) Describe the character of Ruth and illustrate your statements by incidents from her life.

(c) Who or what were the following:—Zion, Elimelech,

Moab, Boaz, Robert Bruce, Jerusalem, Hyacinth?

(d) Tell the story of the mouse that saved the life of the lion.

(e) Who was Isaiah? Where did he live? Concerning what peoples did he utter prophesies, and in general what great message did he utter in Isaiah 40-55?

2. Give a brief summary in Garo of the following passage:-

Jihovako manna am.mitingo, nasimang uko am.bo; uni se-pango dongpition nasimang uo bibo; ekanggipa antangni reaniko. aro kakketgijako mande antangni chanchiarangko watgalchina; aro ua

Jihevaona pilbachina, aro ua una kasachakgen; aro anchingni Isolona, maina uan bangbee kema kagen. Maina angni chanchiarang nasimangni chanchiarang ongja, aro nasimangni reanirang angni reanirang ongja ine Jihova agana. Maina aana bate salgirang chubata gita, nasimangni reanirangna bate angni reanirang, aro nasimangni chanchiarangna bate angni chanchiarang chubata. Maina mikka aro suuri gaakgipaba salgioni ongone uchina pilanggija aake chi rudapa, aro uko bimik aro manchokako naata, aro satgipana bitchriko aro chagipana chaaniko ona gita, angni kusikoni ongkatgipa angni kata onggen; ua onggramari angona pilbajawa, indiba angni namnikako chusokatgen, aro anga jena uko watataha, uano ua silgen.

Translate into Garo the following:-

Once upon a time a discussion arose between the sun and a cloud as to which was the stronger. The cloud said, 'Keep quiet, You are merely a stove, you seek to become equal to me. You have no right to speak so proudly. I cause the wind to blow, and the fearful lightning and the thunder. Because of my anger the rivers and the seas are restless.'

The sun replied, 'You have talked enough. A hollow vessel

makes the greatest noise.'

'What good are mere words?' replied the cloud, 'Let us prove our strength. Under yonder tree sits a traveller. Come, let us prove by deeds our power over that man. Then shall we see whose

power is the greater.

So the cloud began to show his strength. It began to rain and hail. The traveller arose and resumed his journey. He wrapped his cloth about himself, put up his umbrella and tried to protect him-self from the rain and hail. The storm, however, was so fierce that he was soaked through, the sleet blinded his eyes. Seeing this the cloud laughed within his heart.

Then the sun began to shine. The cloud rolled away and soon disappeared entirely. The sun shone over everything. The rain ceased, the hail stopped. On account of the heat the traveller threw off his Then the cloud realized that the sun was the more powerful cloth.

of the two.

Answer in Garo four only of the following: -

(a) How is the comparative and superlative degree of ad-

jectives expressed in Garo? Illustrate.

(b) Explain the difference in meaning of the suffixes -mana. -rang and -drang in the words jinotmang, jinotrang, and jinotdrang.

(c) Indicate the difference in meaning of the first person plural of the personal pronoun chinga and anchinga.

- (d) Explain the forms dak-ani, dak-gipa, and dak-gimin.
 (e) In the sentence 'Ua manchokako naata' explain the use of the inserted particle -at in the word naata.
- Write an essay in Garo of 200 to 300 words on either 14 the following subjects:-
 - (a) The most interesting experience in my life.
 - (b) The value of the bamboo to the Garo.

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TELUGU.

Paper-Setters— { Prof. S. Radhakrishnan, M.A., D.Litt. Mr. R. C. Rau, M.A.

Examiner-MR. R. C. RAU, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. సత్యహారిశ్చండు నికథ విశదము గా చ్రాయుడు.

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విశాక్షమ్ త్రుడు, లో హీతాశుక్షడు, చెండ్రమతి, దీరబాహుడు, గురించి మీకేమి తెలియునూ వార్డాయుకు.

- 2. " చ్యావనుడు" ఆను గ్రంథము చడువుట వలన మీ గ్రంథకర్త 20 రామకృష్ణ శాడ్ర్రిగారి ముఖ్యమైన పుద్దేశములెవ్వియో గ్రహించి ప్రాయుడు.
 - 3. Translate the following passage into Telugu :-

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It is of the greatest importance that regularity should be observed in the management of infants. The routine of the day should proceed like clockwork. The result will be that gradually the child will acquire habits of regularity. Its meals and bath must be given exactly the same time every morning and evening. It should be put on its chair at the same time every morning and evening. It is possible to train a child to use its chair at regular intervals at a very early age, and the inculcation of regularity in this respect has an important bearing upon its after health and well-being. By the time it is nine or ten months old it will, if properly trained, in all ordinary cases have learned to wait to be put on its chair and not wet its diapers.

- 4. Explain and use the following Telugu phrases in sentences of your own:—
 - (a) చుట్టమై చూడ వచ్చి దయ్యమై పట్టుకొన్నట్లు.
 - (b) ఊరువానికి గాటి భయము : పౌరుగూరు **వానికినీటి భ**యము.
 - (c) డికు/లైలేని వానికి డైవామేం దిక్కుల.
 - (d) చికిర్ానవాడు సీగైఱుగడు.
 - (e) ఈ దినను హరివానరమే.
 - 5. Write an essay in Telugu on—" దీపానిక్,"

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LUSHAI.

Paper-Setter and Examiner-Rev. E. L. Mendus, B.A.

Candidates are required to give their answers in their own words as far as practicable.

All questions to be answered in Lushai.

Zawhna zawng zawng Zotawnga chhan' tur ani. The figures in the margin indicate full marks.

Pilgrim's Progress.

1. Give a description of any one character in the Pilgrim's 20 Progress. Kristian Van Ram Kawng Zawh thu a mi pakhat chanchin ziak rawh. Say what you know of Bunyan. 20

Bunyana chanchin i hriat apiang ziak rawh. Explain and illustrate the popularity and value of this book. He mi lekhabu hi a lârzia lch a hlutzia hrilfiah la entir

20

rawh

Write an account of Christian's conflict with Satan. 20 Kristian leh Setana nena an inbei thu ziak rawh.

5. Either. Give the meaning and context of the following 20 words :---

(a) A man that flattereth his neighbour, spreadeth a net for his feet.

(b) Then Christian gave three leaps for joy. Or, Write an account of Vanity Fair.

Emaw, Heng thu hi a awmzia leh a vel a thu te chu ziak ang che:-

(a) Mi a vêngte faktu chuan a ke atân lên a zâr.

(b) Chutichuan Kristiana chu a lawm avangin vawi thum

Emaw, Lawilodawrpui chanchin ziak rah.

MODERN TIBETAN.

Paper-Setters— { Mr. Karma Samdon Paul. , Satkari Mukherjee, M.A.

Examiner-Mr. SATKARI MUKHERJEE, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate any two of the following passages into modern 40 Tibetan :--

(a) The crown and glory of life is character. It is the noblest possession of a man, constituting a rank in itself, and an estate in the general good will; dignifying every station, and exalting every position in society. Though a man have comparatively little culture. alender abilities, and but small wealth, yet if his character be of sterling worth, he will always command an influence, whether it be in the workshop, the counting house, the mart, or the senate. Canning wisely wrote in 1801, 'My road must be through character to power; I will try no other course, etc.'.

That character is power, is true in a much higher sense than that knowledge is power. Mind without heart, intelligence without conduct, cleverness without goodness, are powers in their way, but they may be powers only for mischief.

- (b) The books tell us that already at the birth of Prince Siddhattha the Brahmins who lived as priests and astrologers at the court of the King Suddhodana predicted the child's high destiny. They prophesied: If Prince Siddhattha mounts the throne, he will become a king of kings, a world-ruler; but if he renounces the throne and chooses the life of a recluse, he will become a world-subduer, a universal Buddha. 'And the hermit, Kaladevala, hastened from the wilderness of the Himalaya, threw himself at the feet of the child, and said: 'Verily, this child will one day become perfect, a supreme Buddha, and will show unto men the way to emancipation.'
- (c) Kanva turned his steps the same way and reached a wide, warm, forest-glade encircled by majestic trees. And lo! a sight most wonderful met his eyes. In the middle of the glade, beneath a canopy of white bush-blossoms, there lay, on a coverlet of dark purple silk, a baby girl, radiant and beautiful, her little limbs half covered with a scart of finest muslin. Close by her side, a deer, half-kneeling, offered her teats, whereat the stranger child clutched with her little hands and drank eagerly. And as she drank, a young fawn waited patiently by her mother's side, while that human stranger deprived her of the nourishment which was her right.
 - 2. Explain the following extract in modern Tibetan.

Either, (a) चाक्रेदाशर्द्वास्त्र स्वाप्त मुद्दान्दान्द्वा च्या चित्र स्वाप्त स्वापत स्वाप्त स्वापत स्व

3. Correct the following:—

श्चेंद्र-लूर। चूट-उद्येद-कुर-तृ-वी-व्यक्ति-वोश्वेश-वोट्ट-रेट-। वक्तिजनवस्य-वेक्-वर-धूर-कूर 15

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15 4. What do you understand by the following? Explain in your own language (modern Tibetan).

(a) देशामान्हरादाचेरात् तृष्ट्वा श्राष्ट्राचीन्हरादास्वा

(b) बार्ट्र-अप्यानानान्यन्ति विदाय । अर.मी.सी.हेब.लेव ॥

- 5. Write an essay in modern Tibetan on any of the following:-25
 - (a) All that glitters is not gold.
 - (b) Where there is a will, there is a way.
 (c) Kindness to animals.

MODERN ARMENIAN.

Paper-Setters— { MR. M. J. SETH, M.R.A.S. , S. MIHIJEAN.

Examiner-Mr. M. J. Seth, M.R.A.S.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Write in Modern Armenian the answers of the following 40 questions.

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GUJRATHI.

Paper-Setters- { Dr. I. J. S. Taraporewala, B.A., Ph.D. Pandit Hargobind Das Seth.

Examiner-Pandit Hargobind Das Seth.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks

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(સવાલા ના જવાબ ગુજરાતીમાં લખવા.)

- 1. નીચે આપેલા વિષયા પૈકી એક પર એક નિબંધ લખા:
 - (ક) ખાગ ખગીચા.
 - (ખ) પુસ્તકાના સદુપયાગ.
 - (ગ) વર્ષા ઋતુ.
- 2. નીચે લખેલા અંગ્રેજી દૂકરાના ગુજરાતીમાં અનુવાદ કરા :

When travelling in Kashmir Akbar met an Armenian merchant of the name of Jacob, who had his son with him, a handsome and promising lad. Akbar invited this Armenian merchant to come and settle at Agra and also to induce his other friends from Armenia to come and settle down in the imperial city. Akbar promised to give them land on which they could build their church and worship God in their own way. For Akbar knew that the Armenians were a religious people and that they were so deeply attached to Christianity that they would never consent to settle in a city where they could not have a church. Soon the invitation of the emperor had its desired effect and at the wish of the emperor himself a church was erected at Agra in the year 1562.

3. નીચે લખેલાંના અર્થ સ્પષ્ટ સમજાવા:

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- (ક)' શૂળાનું વિધ્ન કાંટે ગયું.
- (ખ) તેજીને ડુકારાને ગધેડાંને ડીફાં.
- (ગ) અંધારી રાતે ત્મગ કાળા.
- (ધ) ધાલીના કુતરા, ન ઘરના ન ઘાટના.
- (ક) વાવે તેવું પામે.
- 4. નીચ લખેલા દૂકરાના સંક્ષિપ્ત સાર ગુજરાતીમાં લખા:

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નહાનપણથી માળાપની આજ્ઞામાં રહી, ગુરૂ ઉપર ભક્તિ રાખી વિદ્યા ભણવી. કારણકે વિદ્યા એ જ માણુસની પશુતા ઢાળી આ એક અને પર-લાેકમાં એનું કલ્યાણ કરનાર દિવ્યશક્તિ છે, પણ વિદ્યા નીતિ વિના નકામી છે. માટે સર્વ નીતિના પાયા જે સત્ય તે ગુણ ન્હાનપણથી જ આપણાં મન, વાણી અને કચમાં જમાવી દેવા. તે સાથ ન્હાનપણથીજ શરીર સાફ તંદુરસ્ત, મજબૂત અને સહનથીલ થાય ચવી દેવ પાડવી. આમ મન અને તનની કેળવણી પ્રાપ્ત કરીને મ્હાેઢપણે ઉદ્યમ, અક્લ, પરાક્રમ અને પ્રામાણિક પણાયી ઘન પ્રાપ્ત કરતું, અને તેના ડહાપણથી સૌનું કલ્યાણ થાય તેવે માર્ગે ઉપયાગ કરવા.

- 5. નીચેની વાર્તાઓ પૈકી <u>અંકતે</u> તમારા પાતાના શબ્દામા લખા અને 10 તેના સારાંશ આપા:
 - (ક) ભીલકુમાર અકલ્વ્ય.
 - (ખ) રોઠ અને માચા.
 - (ગ) રન્તિદેવ.

- 6. નીચ ઉતારેલી કરીઓના અર્થ લખા અને તે તમારા પાઠયપુસ્તકમાં 15 કચ સ્થળે આવેય છે તે જણાવા:
 - (ક) ધુપિ રહ્યા છે દોતિયા ખે રૂડા, તેને તું નવ નહે જેમે કચ કરાષ્ઠા પ્રતિદિન, તે લખી લેએ ટાણે.
 - (ખ) વાડ થઈને ચાલડાં ગળે, સોંઇા વસ્તુ કયાંથી મળે? ખળું ખાતું હોય જો અન્ન, તાે જીવે નહિ એક જંને.
 - (ગ) સકરખારતું સાકર છવન, ખરના પ્રાણ જહરે, ક્ષારસિંધુનું માછલંહુ જ્યમ, મીઠા જવમાં મરે.
- 7. નીચેના શબ્દોના અર્થ લખા અને ચ પ્રત્યેક શબ્દને તમારા પાતાના 10 જુદા જુદા વાક્યામાં વાપરી ખનાના : અંધાધુંધી, ભરસ્પેલસ્કુ, યજ્ઞભૂમિ, મિત્રવત્સલ, શરસ્યાગત.

TAMIL

Paper-Setter and Examiner—Rao Bahadur L. K. Ananthakrishna Iyer, B.A., L.T.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Give in plain Tamil the meaning of the following verses:-
 - (a) புறகட்டகம் வேர்பபார் ஈசசுப்பகைமை வெளியிட்டு வேளுதல் வேண்டுங் கழிபெருங் கண்ணேட்டஞ் செய்யேல் கருவியிட்டா ற்றவார் புண்வைத்தமுடார் பொதிக்து.
 - (b) சிறமுயற்சி செய்தாங் குறபயன் கொள்**ளப்** பெறமேனிற்ருழ்வரோ தாழார் அறனல்ல எண்மைய வாயினுங் கைவிட்டரிதெ னின்னும் ஒண்மையிற் றீர்ச் கொழுகலார்.
 - (c) தம்மின் மெலியார் செறியாரிடைப்பட்ட அம்மா பெரிதென் றகமகிழ்க—தம்மின்னும் கற்முரை கோக்கிக் கருத்தழிக் கற்றவெல்லாம் ஏற்றே யிவர்ககுராம் என்று.
- 2. Express in short Tamil sentences the ideas contained 20 in the following verses:—
 - (a) அடக்கம் அமாருள் உய்க்கு**ம் அடங்காமை** ஆர் இருள் உய்*த*து விடும்.
 - (b) அகழ்வாரைத் தாகும் கிலம்போலத் தம்மை
 இகழ்வார்ப் பொறுத்தல் தலெ.
 - (c) சிறியோர் செய்த சிறபிழை யெல்லாம் பெரியோ சாயிற் பொறப்பது கடனே.
- 8. "ஸர் ஐஸக் கியூட்டன்" இ**ர்த மகானுடைய ஜீவ**சரித்திரத் 20 தை சுருக்கமாயி எழுதுக.
 - 4. Translate the following passages into Tamil:-

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(a) One of the girls went home on her vacation. She obtained a railway pass to Khandva. The pass allowed her to take a servant with her as far as Khandva. I was glad to obtain her permission to accompany her. I was born in year 1870 in the little village of Devrukh in the Ratnagiri district. The district lies in the Southern Konkan, which is the land south of Bombay.

- (b) My father owned the house in which we lived. He cultivated a few acres of land and occupied himself with petty trading. Our little house was built with a thatched roof, and its walls of reeds plastered with mud, a little verandah and a small garden in front.
- 4. Write a short essay in Tamil on one of the following subjects :--

- (a) பூமிகற்பிக்கும் நீதிகள்.
- (b) எறம்பு. (c) மனேன்மணி.

MALAYALAM

Paper-Setter and Examiner—RAO BAHADUR L. K. ANANTHA-KRISHNA IYER, B.A., L.T.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. (a) കൃഷ്ണഗാഥ, ഭാരതം, കാത്തവീയ്യാജ്ജ് നവി 10 ജയം, അഡ്വാത്മരാമായണം ഇവയുടെ ഗ്രന്ഥകത്താക്ക ന്മാർ ആരാകുന്നു.
- (b) ഗ്രസ്ഥകത്താക്കന്മാരിൽ രണ്ടാളുകളുടെ ജീവ 10 ചരിത്രവും അവരുടെ പ്രധാന കവിതകളും എഴുതുക.
- (c) നാട്ടെഴുത്തശ്ശന്മാരെ പററി അറിയുന്നത എഴ 10 തുക.
- (d) പുരാതന കേരളത്തിലെ അങ്കത്തെ പററി ${f 10}$ അറിയുന്നത ഘഴതുക.
- 2. താഴെ എഴതിയ പദ്യങ്ങളെ മലയാളത്തിൽ **15** എഴതുക :—
 - (a) ഓടീടനാരങ്കണ വിഥിതോദം ചാടീടിനാരഞ്ചിത ചാരുഹാസം പാടീടിനാരതുതനാദമപ്പൊ ഉാടീടിനാർ നാടകമീശ്വരന്മാർ.

- (b) ഇനിത്താനിങ്ങനെ ഗുണവും നാണവും ഭഗവാനെത്തന്നെ തപസ്സുചെയ്യുമെ ന്നകമെ കല്ലിച്ചാളര ശംഭോ !
- (c) കാലികൾ മേപ്പാനായി കാനനം പൂകിന ബാലകന്മാരെല്ലാ മന്നൊരു നാൾ തൃതപമേററുള്ള താപകൊണ്ടേററവും ഭാഹിച്ചുചെന്നുടൻ കാളിന്ദിയിൽ.
- (d) എന്തിനു പലവിധ മുര ചെയ്യുന്നു പംക്കിവരൻെറ പരാക്രമപുക്കികൾം ചിന്തിച്ചാൽ അവസാനവുമില്ല നിന്തിരുപടിയറിയാത്തുമല്ല.
- 3. താഴെ ഏഴതിയ പദങ്ങളുടെ സമാസവും അത്ഥ 10 വും ഏഴതുക :---
 - (a) കാർമുകിൽവണ്ണൻ, (b) അല്ലിത്താർമാതു,

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- (a) പൂത്രദേഹാലിംഗനം, (d) നൂപതിശിഖാമണി,
- (e) മ്ഗയാപിപശൻ, (f) സാരമേയങ്ങൾം.
 - 4. Translate into Malayalam the following passage:-

If you have any garden at all at home, it can be turned to good account, no matter how small it is, and something can be made of it with no cost at all, but a little trouble on your part. To make a garden profitable, you must work in it yourself, not pay some one else to do so. No matter how neglected and tiny a patch of garden you have, something can be done with it, if care and time are given to it.

5. Write a letter in Malayalam to your father or guardian (a) about the choice of profession, (b) about the journey to Calcutta from your native place.

6. Write in Malayalam about the story of-

either

"നിരയിൽ കിട്ടിയ നിധി"

Of

ശകുന്നുളയുടെ തജമന്ദിര പ്രാപൂി.

7. Write in plain Malayalam the substance of the 10 following verse:—

എന്തോ നവീന മതി മാനുക്ഷ ശക്തി ലോക സന്തോഷ ഹേതുക മുടിപ്പതു കാണുവാനായി വൻ തോയ രാശിയിലെഴ്ലംതിരമാല തന്മിൽ തൻതോഴിമാർ വടിവാലാടി രസിച്ചവന്നു.

SINHALESE.

Paper-Setter—Rev. Saugata Sugatakanti. Examiner—Rev. Seelananda.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate the following into Sinhalese:-

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25

- (a) 'Is the Brahmin in your house?' they asked. 'No,' replied the king. 'Did you give him money for his lodging?' 'I did not,' again answered the king. 'Then where shall we find him?' asked the generals.
 - (a) 'A loving son who gladly gives His life to do his duty, Will live in blissful happiness In realms of endless beauty.'
- (c) Then he went by a short cut to the top of the mountain to which he had directed the men. There he stopped a while and looked over the world. Then he said, 'May not the result of the deed I shall now perform give me any happiness, either in heaven, or in a future life on earth. But if there be any merit in this act of giving up the body to feed these starving people, may it help me to become the Buddha so that I may help others.'
- 2. Write an essay on either Kusajātaka Kāvya, or Selaļihiņi Sandesa.
 - 3. Explain the Brahmārādhanaya according to Pūjāvaliva.
 - 4. Write a short note on the following:— 25 සමනොළ, විසිහණ, ජයවදධනපුරය, කැලැණිය, මස්කෙලිය, දෙව්ලියෝ, පැරකුමබා, නොටගමුවේ රානු ලමාහිමියානෝ, සැළළිසිණි.

KANARESE.

Paper-Setter and Examiner-Mr. P. Appaji Rao, B.Sc.

Candidates are required to give their answers in their own words as far as practicable,

The figures in the margin indicate full marks.

1. Translate any two of the following passages into Kanarese:

- (a) The rose is a lovely flower. There are other flowers that smell as sweet, but they are not so beautiful. There are other flowers that are as beautiful but they do not smell so sweet. There is no flower in the world that is both so beautiful and so sweet as the rose. In most parts of the world the rose grows wild. But wild roses are not so large nor so beautiful, nor do they smell so sweet as the garden rose. In every garden in England this sweet flower may be seen, and without it no garden would be perfect. There are hundreds of varieties, some large, some small. They are of different colours: some white, some red, some yellow. There is a colour that is known as rose colour. It is the pink tint seen in the cheeks of children who live in cold countries, and is a sign of health.
- (b) I will tell you, gentlemen, what has been the practical error of the last twenty-five years—not to load the memory of the student with a mass of undigested knowledge, but to force upon him so much that he has rejected all. It has been the error of distracting and enfeebling the mind by an unmeaning profusion of subjects; of implying that a smattering in a dozen branches of study is not shallowness, which it really is, but enlargement, which it is not, of considering an acquaintance with the learned names of things and persons, and attending on eloquent lecturers and membership with scientific institutions and the sight of the experiments of a platform, and the specimens of a museum, that all this was not dissipation of mind, but progress. All things now are to be learned at once, not first one thing, then another, not one well, but many badly. Learning is to be without exertion, without attention, without toil; without grounding, without advance, without finishing.
- (c) When you wake, say to yourself—To-day I shall encounter meddling, ingratitude, violence, cunning, jealousy, self-seeking, all of them the result of men not knowing what is good and what is evil. But seeing that I have beheld the nature and nobility of good, and the nature and meanness of evil, and the nature of the sinner, who is my brother, participating not indeed in the same flesh and blood, but in the same mind and partnership of the Divine. I cannot be injured by any of them; for no man can involve me in what demeans. Neither can I be angry with my brother or quarrel with him, for we are made for co-operation like the hands, the feet, the eyelids, the upper and lower rows of teeth. To thwart one another is contrary to nature; and one form of thwarting is resentment and estrangement. You are a part of the social whole; a factor necessary to complete the sum; therefore your every action should help to complete the social life.

- 2. Write an essay on any one of the following subjects in Kana-20 rese :--
 - (a) ಬುದ್ದಿ ವಂತನೇ ಬಲಿಷ್ಟನು
 - (b) The life of a peasant in Karnātaka Desh.
 - (c) Advertisements—their use and abuse.
- 3. Expand the following proverbs into a small story in 20 Kanarese not exceeding one and a half pages :-
 - (a) Men may come and men may go But I go on for ever.
- 4. Describe briefly the conversation of Savitri with Yama.
 5. What do you understand by Bhratri-prema? How far does your view agree with that of the writer of this book? 15 15

6. Which part of Savrali do you like best? State your reasons. 15

PERSIAN VERNACULAR

Paper-Setter-Aga Md. Kazim Shirazi.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. (a) Translate into English:-

یکی از ملوك مدت عمرش سیری شد ر قائم مقامی نداشت رصیت کرد که بامدادان نخستین کسی که در شهر در آید تاج شاهی بر سر اد نهید د تفریض مملکت بدر کنید - اتفاقا ادل کسی که در شهر در آمد گدائی بود که همه عمر لقمه لقمه اندرخته ر رقعه بر رقعه درخته -ارکان دولت وصیت ملک را بجا آوردند و ملک و خزائن بدر ارزانی داشتند *

- (b) Give in your own words the substance of the whole story of which the above is an extract.
- 2. Give the summary of the following lines either in Persian or 19 in English :-

شنیدم که در رقت نزع روان * بهرمز چنین گفت نوشیــروان که خاطر نگهدار درریش باش * نه در بند آسایش خویش باش نآید بندندیک دانا پسند * شبان خفته ر کرک در گوسیند

برو پاس درویش معتاج دار * که شاه از رعیت بود تاجدار رعیت چر بین اند ر سلطان درخت * درخت ای پسر باشد از بین سخت 3. Answer any two of the following:-16

(a) Give the opposite numbers of the following:-

ملوک - ارکان - رعیت - ملائکه - رقت - رصیت - عمر - مملکت * (b) Form sentences from each of the following:-

ترک گفت - خانه بدرش - زمین ریخت - زمین زد - دراز کشید -در رسید - بر خورد - ناگفته *

(c) Give the Persian equivalents of—be quick; walk slowly; drink water; don't talk; he should go; it rains.

4. Write a short account of the life of Sa'dī or Jāmī.

8 8 5. Explain and turn into prose order :-

مرا **خود دل** دردمند است خیز * تو نیــزم نمک بر جراحت مریز

The two friends knocked at the door of my house, and my porter opened it. One of them said to the man, 'We are informed that this is Hasan's house; tell us if we are not mistaken.' 'You are quite right, Sir!,' said the porter, opening the door wide, 'this house belongs to him. Pray come in, my master is in the house and any of the slaves will point him out to you.' Saying this he showed him the way. I had no sconer set my eyes on the friends, than I knew them. I rose from my seat, ran to them, and would have kissed their hands but they would not allow me. Both of them ambraced me. hands, but they would not allow me. Both of them embraced me.

7. Write an essay in Persian on one of the following:-

راستی موجب رضایی خداست * -(a)

> کار امرر ز را بفردا نینداز * (b)

20

(c) سالی که نکوست از بهارش پیداست *

PORTUGUESE

Paper-Setter and Examiner—Dr. P. D. Braganca Cunha.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- Write what you know about the author of ! cidade e as 20 settas.
 - Give in your own words the meaning of the following verses:-20 Na batalha da vida evidente se torna. Que ou havemos de ser martelo ou ser bigorna.

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Conclusao natural do dilema singelo: Evitar a bigorna triste... e ser martelo. Monstruoso, feroz, horrível, mas en suma Ponderemos que a vida é curta, e que há so uma!

3. Write an essay in Portuguese about 'Antes pobreza honrada do que riqueza roubada.'

4. Give—the present indicative of the verb jazer; the imperfect indicative of the verb pôr; the perfect indicative of vêr; and the conditional of trazer.

5. Give the meaning of the following compound nouns:—mestre-sala, goma-lacre, amôr-perfeito, meia-lua, pedra-iman, malquerença, papa-jantares.

ALTERNATIVE PAPER IN ENGLISH

Paper-Setters— { DR. SUNITI KUMAR CHATTERJI, M.A., D.LIT. MR. A. K. CHANDA, M.A. (Oxon.).

Examiner-Mr. H. H. CHABTREE, M.A.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

- 1. Either, Write a short essay on one of the following subjects: 20
 - (a) Great Men.
 - (b) Plain Living and High Thinking.
 - (c) The Study of Geography.
- Or, Write a letter to a friend, describing either (a) a river journey, or (b) the rainy season.
- 2. Give the substance of one of the following passages, bringing out clearly the main idea:—
- (a) A book is essentially not a talked thing, but a written thing; and written, not with the view of mere communication, but of permanence. It is printed because its author cannot speak to thousands of people at once; if he could, he would—the volume is mere multiplication of his voice. But a book is written not to multiply the voice merely, but to preserve it. The author has something to say which he perceives to be useful, or helpfully beautiful. So far as he knows, no one has yet said it; so far as he knows, no one else can say it. He is bound to say it, clearly and melodiously if he may; clearly, at all events. In the sum of his life he finds this to be the thing, or group of things, manifest to him. This the piece of true knowledge, or sight, which his share of sunshine and earth has permitted him to seize. He would fain set it down for ever, engrave it on a rock, if he could, saying, 'This is the best of me. For the rest, I ate, and drank, and slept, loved, and hated, like another. My life was as the vapour, and is not; but this I saw and knew: this, if anything of mine, is worth your memory.' This is his 'writing'; it is, in his small human way, and with whatever degree of true inspiration which is in him, his inscription, or scripture. That is a 'Book.'
- (b) The greatest results in life are usually attained by simple means, and the exercise of ordinary qualities. The common life of

every day, with its cares, necessities. and duties, affords ample opportunity for acquiring experience of the best kind; and its most beaten paths provide the true worker with abundant scope for effort and room for self-improvement. The road of human welfare lies along the old highway of steadfast well-doing; and they who are the most persistent, and work in the truest spirit, will usually be the most successful.

Fortune has often been blamed for her blindness; but fortune is not so blind as men are. Those who look into practical life will find that fortune is usually on the side of the industrious, as the winds and waves are on the side of the best navigators. In the pursuit of even the highest branches of human inquiry, the commoner qualities are found the most useful—such as common sense, attention, application, and perseverance. Genius may not be necessary, though even genius of the highest sort does not disdain the use of these ordinary qualities. The very greatest men have been among the least believers in the power of genius, and as worldly-wise and persevering as successful men of the commoner sort. Some have even defined genius to be only 'common sense intensified.' Others have spoken of it as 'the power of making efforts' and as 'the power of lighting one's own fire,' and also as being identical with patience.

Choose one of the following passages, and give the substance of it, expressing also in a single sentence its main thought:-

(a) Hope on, hope ever! though to-day be dark, The sweet sunburst may smile on thee to-morrow: Tho' thou art lonely, there's an eye will mark Thy loneliness, and guerdon all thy sorrow! Tho' thou must toil 'mong cold and sordid men. With none to e-ho back thy thought, or love thee, Cheer up, poor heart! thou dost not beat in vain. For God is over all, and heaven above thee-Hope on, hope ever.

The iron may enter in and pierce thy soul.

But cannot kill the love within thee burning:

The tears of misery, thy bitter dole Can never quench thy true heart's seraph yearning For better things; nor crush thy ardour's trust

That Error from the mind shall be uprooted, That Truths shall dawn as flowers spring from the dust, And Love be cherisht where Hate was embruted! Hope on, hope ever.

(b) A country life is sweet!

In moderate cold and heat

To walk in the air, how pleasant and fair.

In every field of wheat,

The fairest of flowers adorning the bowers

And every meadow's brow!

So that I say, no courtier may Compare with them who clothe in grey

And follow the useful plough.

They rise with the morning lark And labour till almost dark;

Then folding their sheep, they hasten to sleep;

While every pleasant park

Next morning 18 ringing with birds that are singing

On each green tender bough.

With what content and merriment

Their days are spent, whose minds are bent

To follow the useful plough!

20

- 4. Either, Expand the thought contained in one of the following passages, with or without reference to the poem in which it occurs:—
 - (a) Ye fools, whose base-born thoughts invite
 To shine with tiny spurious light . . .
 Tremble lest the sun's bright glare
 Lay all your false pretensions bare.
 - (b) For still, resplendent Moon! whene'er we see Thy placid face, and fondly gaze on thee, Its gentleness upon the wounded soul Exerts a healing power and calm control.
- Or. Select one of the following quotations and write in simple English the story contained in the poem from which it is taken:—
 - (a) For though the great may relish wit, They may not choose to furnish it, And jesters who have any sense Will seldom jest at their expense.
 - (b) And thus I fling the dear-bought crown But whither can I fly? The awful thought still follows me That even kings will die.
- 5. Give in your own words the substance of EITHER (a) The Revenue Officer's Story, on (b) The Belated Travellers, from A Round of Tales.
- 6. Scan any two of the following passages, and discuss the 16 figures of speech in the passages chosen by you :--
 - (a) Can storied urn, or animated bust Back to its mansion call the fleeting breath? Can Honour's voice provoke the silent dust, Or Flattery soothe the dull cold ear of Death?
 - (b) Where is the thatch-roofed village, the home of Arcadian farmers,—

Men whose lives glided on like rivers that watered the woodlands?

Waste are those pleasant farms, and the farmers for ever departed!

Scattered like dust and leaves, when the mighty blasts of October

Seize them, and whirl them aloft, and sprinkle them far o'er the ocean.

(c) Lives of great men all remind us
We can make our lives sublime,
And departing leave behind us
Footprints on the sands of Time—
Footprints, that perhaps another
Sailing o'er Life's solemn main
A forlorn and ship-wrecked brother,
Seeing, shall take heart again.

HISTORY

Paper-Setters— { Prof. D. R. Bhandarkar, M.A., Ph.D. Dr. Upendranath Ghoshal, M.A., Ph.D.

Head Examiner-Dr. Upendranath Ghoshal, M.A., Ph.D.

MR. NIRMALKUMAR GUPTA, M.A.

,, UPENDRANATH RAY, M.A.

,, BIDHUBHUSHAN SENGUPTA, M.A.

,, ABANINATH BASU, M.A.

, RAMANIRANJAN SEN, M.A.

,, Surendrakisor Chakrabarti, M.A.

, GOPALKINKAR MUKHERJEE, M.A.

,, Anilchandra Chaudhuri, M.A.

, TARAKNATH MOOKERJEE, M.A.

ABDUL MUNIM CHOWDHURI, M.A.

Mr. Narendrakrishna Sinha, M.A

,, TARAKNATH TALUKDAR, M.A.

" Debaprasad Ghosh, M.A.

" SUDHINDRAKRISHNA DATTA, M.A.

,, NAZIR AHMAD, M.A.

,, Annadacharan Sen, M.A.

(Looked over answer-papers written in Vernaculars).

Examiners—

BENGALI

Mr. Lalitmohan Bhattacharyya, M.A.

" MURALIDHAR BASU, M.A.

" SADHANKUMAR BANERJEE, M.A.

SRIMATI BINAPANI GHOSH, M A.

M3. BIRENDRANATH CHAKRABARTI, M.A.

,, NIRMALENDU DASGUPTA, M.A.

" NEPALCHANDRA RAY.

,, TRIDIBNATH RAY.

,, Karunakinkar Banerjee.

, Phanibhushan Mukherjee.

ASSAMESE

SRIJUT SURYYAKUMAR BHUIYAN, M.A.

PERSIAN

MR. S. KHUDA BUKHSH, M.A., B.C.L., Barrister-at-Law.

ARMENIAN

MR. M. J. SETH, M.R.A.S.

NEPALI (Parbatia)

MR. DHARANIDHAR MISRA, B.A.

TELUGU MR. B. RAMCHANDRA RAU, M.A. BURMESE

MR. G. J. MUNRO.

URIYA

REV. B. DAS, B.A.

HINDI

PANDIT DINANATH MISRA, M.A., B.L.

URDU Burmese MR. MUHAMMAD SHAFI

MAITHILI

KUMAR GANGANAND SINGH, M.A.

MARATHI Prof. D. R. Bhandarkar, M.A., Ph.D.

Candidates are required to give their answers in their own words as far as practicable.

Answer six questions only, at least one being from each group. Each question carries 16 marks. Four marks are reserved for execllence of style.

GROUP A

- 1. Sketch briefly the career of Chandragupta Maurya, and describe the system of administration under his rule.
 - 2. Write short accounts of the following:

 - (a) The Palas o Bengal.(b) The Pallayas of Kanchi.(c) The Yadayas of Deogri.
- 3. Briefly indicate the progress of Muslim arms in northern India under the Houses of Ghazm and Ghor. Sketch he parts played by Jaypal and Prithviraja Chauhan in resisting the invaders.

GROUP B

- 4. Give some account of the reign of Muhammad Tughlaq, and show how his measures led to the decline of the Empire of Delhi.
 5. Sketch the rise and decline of the kingdom of Vijaynagar.
 6 Give a short account of Sivaji's relations with the Mughal Empire,
- and describe his system of civil and inilitary administration.

GROUP C

- 7. Summarize the measures of internal reform which are associated with the administrations of (a) Bentinck, and (b) Ripon.
- 8. State what you know of British relations with the Mahratta powers in the times of (a) Wellesley, and (b) Hastings (the peer).
- 9. Review briefly the administration of Lord Dalhousie, and explain what you think about his annexation policy.

GROUP D

10. Describe the constitution and functions of the Indian Legislature as defined by the Government of India Act, 1919.

11. Give some account of the development of roads, railways, and irrigation in India under British rule.

12. Consider the measures taken by the British Indian Government for the improvement of public health and sanitation.

GEOGRAPHY

Paper-Setters— { Mr. Birajmohan Majumdar, M.A., B.L. Hemchandra Dasgupta, M.A., F.G.S. Head Examiner-MR. HEMCHANDRA DASGUPTA, M.A., F.G.S. (MR. BENIMADHAB BHATTACHARYYA, B.A., B.T. Examiners—

| Mr. Benimadhab Bhattacharyya, B.A., I | , Gangacharan Dasgupta, B.A., B.T. | , Sureschandra Niyogi, B.T. | , Kalikrishna Rakshit, B.T. | , Nibaranchandra Raychaudhuri, B.T. | , Indubhushan De, B.A., B.T. | , Praphullakumar Sarkar, M.A. | , Rebatiraman De, B.Sc., B.T.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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1. Distinguish between—	10
 (a) oceanic islands and continental islands; (b) water-parting and water-shed; (c) moraine and iceberg; (d) tornadoes and water-spouts. 	
2. Either, Enumerate the tactors on which the climate of a place depends, and indicate how the difference between the climates of Simla and Calcutta may be explained. Or, Explain the formation of dew and rain.	10
3. A telegram is dispatched at Greenwich at 1 P.M. What will be the time when it is received in Madras (longitude 80 °E.), supposing it to take 15 minutes in transmission?	10
4. Draw a map of India showing the areas chiefly noted for (a) cotton, and (b) wheat cultivation.	10
5. Name :	10
 (a) The chief cities of India situated on the western coast. (b) The chief mountains of the Bombay Presidency. (c) The chief rivers of Burma. (d) The chief peaks of the Himalayas. (e) The Dutch possessions in Asia. 	
6. Give an account of the geography of Bengal under the following heads:—(a) boundaries, (b) chief rivers, (c) chief towns and their	10

importance, (d) chief exports, and (e) chief railway lines.

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7. Either, Give an account of the following:—Bandar Abbas, Cochin, Gilgit, Jabalpur, Lucknow, Naga Hills, Palk Strait, the Ridge, the Sone river, and Dehra Dun.

Or, You are provided with a skeleton-map of Africa. Insert the following in this map:—Tanganyika, the Niger, the Atlas, Cairo, Abyssinia, Morocco, Algeria, Tunis, the Congo, and the Zambesi.

8. Either, Describe the coast-line of South America.

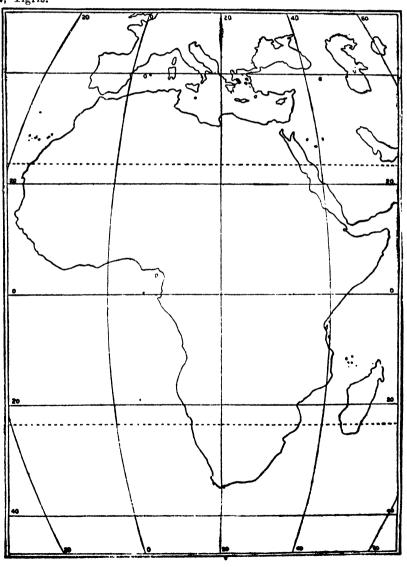
Or, Enumerate the islands composing the Japanese Empire.

9. Either, Name the great natural divisions of the surface of Europe, and describe them.

Or, Compare Italy with India so far as the surface features

are concerned.

10. Write notes on the following:—Azores, Tropic of Cancer, Danube, Gulf of Genoa, Huron, Manchester, Nubia, Palestine, Red Sea, Tigris.



MECHANICS:

Paper-Setters— { DR. SNEHAMAY DATTA, D.Sc. MR. SATISCHANDRA GHOSH, M.A.

Examiners— { Mr. Khetramohan Ghosh, B.Sc. , Sudhansubadan Panda, M.Sc.

Candidates are required to give their answers in their own words as far as practicable.

Answer any SEVEN questions.

The questions are of equal value.

Neatness will be taken into consideration in awarding marks.

1. Define 'average velocity.'

A train starting from rest acquires a velocity of 48 miles an hour in 2½ minutes. Find the distance run in that time.

- 2. A ball is thrown up vertically and caught again in 6 seconds. Find the velocity of projection and the greatest height.
 - 3. Enunciate Newton's Laws of Motion.

Obtain the relation between the weight of a pound mass and a poundal.

4. Enunciate 'the parallelogram of forces.'

Two forces, whose magnitudes are as 5: 12, acting on a particle at right angles to each other, have a resultant of 78 lb. weight. Find the forces.

5. Define 'moment of a force about a point.'

A uniform beam, $4\frac{1}{2}$ feet long, rests horizontally on two props placed under its extremities; the pressure of the beam on each prop is 5 lb. Where must a weight of 54 lb. be placed so that the whole pressure on one of the props may be 12 lb.?

6. What is an 'inclined plane?' What is its use?

How would you find experimentally the relation between the effort and the weight in the case of an inclined plane?

- 7. Describe the three classes of 'lever.' In which class would you place 'an oar in action,' and why?
 - 8. Describe the single-string system of pulleys.

Find the least number of pulleys in a moveable block weighing 10 lb. in order that a weight of 120 lb. may be lifted by a downward force not exceeding 28 lb.

9. What do you understand by 'the centre of gravity of a body '?

Determine the centre of gravity of a thin uniform lamina in the form of a parallelogram.

10. The beam of a false balance is 38 inches long, and a certain body when placed in one scale appears to weigh 5 lb. 1 oz., and in the other 6 lb. 4 oz. Find the true weight of the body and the lengths of the arms of the balance.

20

HYGIENE

Paper-Setters— { Col. A. D. Stewart. Captain Dabiruddin Ahmed. Examiners—

| Mr. Rameschandra Ray, L.M.S. | Hygiene in Hindi | Mr. Nalinimohan Sanyal, M.A. | Hygiene in Telugu | Mr. B. Ramchandra Rau, M.A. | Hygiene in Uriya

Candidates are required to give their answers in their own words as far as practicable.

Any FIVE questions to be answered.

The figures in the margin indicate full marks.

1. What are the chief sources of water-supply in the towns and 20 villages of Bengal? How are wells and tanks polluted? What measures would you adopt to purify the water? 2. What, in your opinion, is an adequate diet for a Bengali? 20

What classes of substances must it contain? What are the advantages and disadvantages of cooking food?

3. What means would you adopt to prevent the members of your family getting malaria in a village?

1. There is a case of consumption in a family. What measures 20

would you adopt to prevent the other members getting infected from him?

5. Why are games and exercises in the open air good for making 20 and keeping one healthy?

6. Give a sketch or drawing, with a short description, of what 20 you consider a good dwelling-house for a family in a Bengal village, consisting of father, mother, and four children.

COMMERCIAL GEG TRAPHY

Paper-Setters— { Mr. Mohitkumar Ghosh, M.A. (Cal.), B.Com (Lond.). Dr. Harischandra Sinha, Ph.D.

Examiner—Dr. Harischandra Sinha, Ph.D.

Candidates are required to give their answers in their own words as far as practicable.

Answer Question 1 and any FIVE of the rest.

The figures in the margin indicate full marks.

1. Draw a map of India showing the chief coal-fields and the railways leading from them.

- 2. Explain as fully as you can the reason for any three of 16 the following:—
 - (a) Indian monsoons.
 - (b) Different ocean currents.
 - (c) Different seasons of the year.
 (d) Different climates in different parts of the world.
- 8. What are the necessary geographical conditions for the growth of tea, coffee, and cocoa? Name the regions (a) where all these three commodities are grown; (b) where tea and coffee are grown, but not cocoa; and (c) where tea only is grown.

16

- 4. State the conditions favouring the growth and the chief producing areas of—(a) rice. (b) sugar-beet, and (c) tobacco.
- 5. Explain the meaning of any four of the following, adding in each case where the substance is to be found:—(a) crude oil, (b) palm oil, (c) latex, (d) galena, (e) merino, and (f) spelter.
- 6. Write a short essay on 'Coal,' with a paragraph on each of the following topics:—(a) origin of coal; (b) coalmining; (c) its dangers; (d) different kinds of coal; (e) principal coal-fields of the world.
- 7. Describe fully the sea-route from any port in Britain to a 16 port in India.
- 8. State the situation and account for the importance of any five of the following:—(a) Alexandria. (b) Baghdad, (c) Colombo, (d) Dundee, (e) Marseilles, (f) Montreal, and (g) Valparaiso.

BUSINESS METHOD AND CORRESPONDENCE

Paper-Setters— { MR. S. R. BATLIBOI, F.S.A.A. NARENDRANATH SARKAR, M.A.

Examiner-MR. NARENDRANATH SARKAR, M.A.

Candidates are required to give their answers in their own words as far as practicable.

Any EIGHT out of the following twelve questions may be attempted.

All questions are of equal value.

- 1. Explain the following variations of a cheque:—(a) payable to bearer, (b) payable to order, (c) crossed to a particular bank, (d) crossed 'a/c payee only.'
- 2. Briefly describe the main sources from which a bank derives its profits.
- 8. Write out a specimen order given by a wholesale dealer to a manufacturer.
- 4. A certain commodity may be bought at 1s. 2d. per yard or at 6.50 fr. per yard. At what rate of exchange is the latter the cheaper price?
- 5. Describe the marhinery by which tea passes from the Indian plantation to the foreign consumer.
- 6. Explain the utility of Cost Accounts in the case of a manufacturing concern.

- 7. Explain the following terms:—(a) paying-in-slip, (b) stale cheque, (c) certificate of posting, (d) postal order, (e) credit note, (f) journal entry.
- 8. You are manager of an Accident Insurance Company. An insured person has met with an accident whilst in an intoxicated state, this being expressly excluded by the conditions of the policy. The insured person, however, makes a claim and your Agent strongly insists upon you to admit the claim as he is a valuable client. Reply suitably to the Agent.
- 9. Mention the main points of distinction between a partnership and a company.
- 10. What is a Consular Invoice? Explain its importance in foreign trade, and give a specimen of the declaration required in it.
- 11. Name the countries where the following coins are in circulation:—
 (a) Zloty, (b) Piastre, (c) Yen, (d) Dinar, (e) Krone, (f) Peseta.
- 12. The following letter has been received in reply to an advertisement in the *Liberty* of the 17th of April, 1930, for an appointment as a general clerk with knowledge of accounts in a mercantile firm:—
 - 'Gents,

I have seen your advt. Am a Matriculate of the Cal. Univ. I have learnt book-keeping in Ghosh and Mitter's Institute and am regarded as a very efficient accountant by my friends. I think the appointment in your office will quite suit me. So please send me a letter of appointment at an early date.

Yours.

R. C. Banerjee.

Address.

R. C. Banerjee, Esq.,

39, Mirzapore St., Calcutta.

Rewrite the above letter in proper form.

Intermediate Examination,

1931

ENGLISH

FIRST PAPER.

Paper-Setters- { Rev. Father F. X. Crohan, S.J. Mr. Bijaygopal Munherjee. Dr. Harendracoomar Mookerjee, M.A.. Ph.D

Head Examiner—Dr. SRIKUMAR BANERJEE, M.A.

MISS STELLA BOSE, M.A.

MR. KAMALKRISHNA GHOSH, M.A.

, BANABIHARI DAS, M.A.

, ACHYUTAKUMAR DATTA, M.A.

, JITENDRANATH CHAKRABARTI, M.A.

, NRIPESCHANDRA GUHA, M.A.

, DEBENDRAKUMAR SEN, M.A.

, HARENDRACHANDRA CHAKRABARTI, M.A.

, HARICHARAN MUKHERJEE, M.A.

, SATYASARAN KAHALI, M.A.

, SURYYAKUMAR BHUIYAN, M.A.

, PRAMATHABHUSHAN MUKHERJEE, M.A.

, PRAPHULLARANJAN DHAR, M.A.

, PRAPHULLAKUMAR DAS.

, BANIKANTA KAKATI, M.A.

, BIBHUTIBHUSHAN GHOSHAL, M.A.

Candidates are required to give their answers in their own words as far as practicavie.

The figures in the margin indicate full marks.

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- 1. Either, Reproduce in your own words the story of Laodamia as told by Wordsworth. What lesson does the poet teach by that story?
- Or, Give a summary of the speech of Antony (in Julius Caesar, Act III, Scene ii), and show how it reveals the character of the speaker.

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2. Explain two of the following passages:-

(a) And Ardennes waves above them her green leaves, Dewy with Nature's tear-drops as they pass, Grieving, if aught inanimate e'er grieves, Over the unreturning brave, alas!

Ere evening to be trodden like the grass
Which now beneath them, but above shall grow In its next verdure . . .

Show from the above passage that this poet's attitude towards nature differs from that of Wordsworth.

(b) Yet all experience is an arch wherethro' Gleams that untravell'd world, whose margin fades For ever and for ever when I move. How dull it is to pause, to make an end. To rust unburnish'd, not to shine in use! As tho' to breathe were life.

What light does this passage throw on the character of the speaker?

(c) Yet, be it less or more, or soon or slow,
It shall be still in strictest measure even
To that same lot, however mean or high,
Toward which Time leads me, and the will of Heaven.
All is, if I have grace to use it so,
As ever in my great Task-Master's eye.

Show clearly how the Parable referred to in the above passage applies to the case of Milton.

- 3. Either, What do you learn from The Lady of the Lake about the character, manners, and customs of the Highlanders of Scotland?
- Or. Discuss the relevancy of the introduction—(a) of the episode of Blanche in Canto IV, (b) of the ballad Alice Brand in Canto IV, and (c) of the Guard-room scene in Canto VI, of The Lady of the Lake.
- 4. Explain one passage from Group A, and two passages from Group B:--

Α

- As lightly it trembles in his hand,
 As in my grasp a hazel wand;
 My sire's tall form might grace the part
 Of Ferragus, or Ascabart.
- (b) Where twined the path in shadow hid,

Round many an insulated mass, The native bulwarks of the pass, Huge as the towers which builders vain Presumptuous piled on Shinar's plain.

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- (c) A little while I stood,
 Breathing with such suppression of the heart
 As joy delights in; and with wise restraint
 Voluptuous, fearless of a rival, eyed
 The banquet.
- (d) Fox-glove and night-shade, side by side, Emblems of punishment and pride, Group'd their dark hues with every stain 'The weather-beaten crags retain.

- (e) To make this earth, our hermitage, A cheerful and a changeful page, God's bright and intricate device Of days and seasons doth suffice.
- **b.** Annotate five of the following expressions:—thou many-headed monster-thing; the Lupercal; the rainy Hyades; the red streamers of the north; the conscious Parcae; the unmoored cloud-galleons; Beltane game; the fatal Ben-Shie's boding scream.

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SECOND PAPER

Head Examiner-Mr. Satischandra De, M.A.

MR. BHOLANATH CHAKRABARTI, M.A.

, MOHINIMOHAN MUKHERJEE, M.A.

, JITESCHANDRA GUHA, M.A.

, SOMESWARPRASAD MUKHERJEE, M.A.

, BATUKNATH BHATTACHARYYA, M.A.

, PANCHANAN GANGULI, M.A.

, AMIYAKUMAR SEN, M.A.

, JYOTSNAMAY BOSE, M.A.

, JATINDRAMOHAN GHOSH, M.A.

, SASIKUMAR GHOSH, M.A.

, SUSILCHANDRA DATTA.

, BIJAYRANJAN DASGUPTA, M.A.

, BIRENDRABINOD RAY.

, KIRTISCHANDRA BANERJEE.

, PRAPHULLAKUMAR BANERJEE.

, SOMNATH MAITRA.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Either, Show by references to your text that 'the interest of the Odyssey is intensely human.'
- Or, Point out some instances in which Homer is found to be one of the most interesting, because assuredly one of the most unconscious, commentators on the Bible.'
- 2. State what you know about any two of the following:— 12 Circe. Eumæus. Antinous.
- 3. Explain with reference to the context any two of the following:—
- (a) Viewed with reference to the tone of the age as regarded the duties of women,—compared with the parting charge of Hector in the *Iliad* to the wife he loved so tenderly, and even with a higher example in Scripture,—there is nothing startling or repulsive in such language from a son to his mother.
- (b) Among all the heroes of Iliad or Odyssey there is no Sir Galahad.
- (c) Ulysses, both in the Iliad and in the Odyssey, is the diplomatist of his age.

- 4. What idea can you form of Scott's character from his attitude after the failure of Ballantyne & Co.? Do you think it was a pose 'assumed to deceive the world? Give reasons for your answer.
- 14
- 5. Explain with reference to the context any three of the following :--

- (a) 'Beyond Hyde Park,' says Sir Fopling Flutter, 'all is a desert.'
- (b) It is an impressive truth that sometimes in the very lowest forms of duty, less than which would rank a man as a villain, there
- is, nevertheless, the sublimest ascent of self-sacrifice.

 (c) Frankly, I cannot think of flinging aside the half-finished volume, as if it were a corked bottle of wine. . I may, perhaps, take a trip to the Continent for a year or two, if I find Othello's occupation gone, or rather Othello's reputation.

(d) Finch, who had the day before been universally reviled,

was now universally applauded.

- 6. Either, Write a short estimate of Christ as a great teacher, illustrating your answer by quotations from or references to your text. Or, Compare Christ with any other Oriental moral or religious teacher with whose life, writings, or sayings you are familiar.
 - 7. Annotate any two of the following:

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- (a) And he came and dwelt in a city called Nazareth; that it might be fulfilled which was spoken by the prophets, He shall be called a Nazarene (Douay Version— Nazarite).

 (b) I say unto you, It shall be more tolerable for the land of
- Sodom and Gomorrha in the day of judgment, than for that city.

 (c) Render therefore unto Caesar the things which are Caesar's; and unto God the things that are God's.

THIRD PAPER

Head Examiner-Mr. RAJANIKANTA GUHA, M.A.

- Mr. Digindranath Majumdar, M.A.
 - .. SARATCHANDRA GUPTA, M.A.
- Examiners—

 SARATCHANDRA GUPTA, M.A.

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 DWIJENDRANATH BHATTACHARYYA, M.A.

 BANKUBIHARI BHATTACHARYYA, M.A.

 SASIMOHAN CHAKRABARTI, M.A.

 RAI RADHIKANATH BOSE, BAHADUR, M.A.

 MR. SURENDRANATH RAY, M.A.

 ABU HENA, M.A.

- .. ABU HENA, M.A.
- .. GIRIJAKANTA MAJUMDAR, M.A.
- .. Gopalchandra Bhattacharyya, M.A. .. Anandakrishna Sinha.
- ARTHUR MOWAT, M.A. (EDIN.).

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Write an essay on one of the following subjects:

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(a) The value of science in everyday life.

(b) The fascination of travel.

(c) Mental culture and the need of it at the present day.

(d) The heights by great men reached and kept,
Were not attained by sudden flight.

- 2. Give in your own words the substance of one of the following passages:—
- (a) Would you know whether the tendency of a book is good or evil, examine in what state of mind you lay it down. Has it tended to make you dissatisfied and impatient under the control of others? Has it disposed you to relax in that self-government, without which both the laws of God and man tell us there can be no virtue, and consequently no happiness? Has it attempted to abate your admiration and reverence for what is great and good, and to diminish in you the love of your fellow creatures? Has it addressed itself to your pride, your vanity, your selfishness, or any other of your evil propensities? Has it defiled the imagination with what is loathsome, and shocked the heart with what is monstrous? Has it disturbed the sense of right and wrong which the creator has implanted in the human soul? If so—if you were conscious of all or any of these effects—or if having escaped from all, you have felt that such were the effects it was intended to produce, throw the book into the fire whatever name it may have on the title-page! Throw it in the fire though it should have been the gift of a friend.
- (5) That nothing in Nature is stagnant—that everything is capable of and demands development, and that education is second only to Nature in its effects—these are truths that require no proof, for they are almost axiomatic. They govern the world or matter, and still more, the world of mind. Nature never rests; and its glories and splendours that make pale with wonder the observer of refinement and sensibility, are not the work of a moment, but the result of slow growth and development, carried out in obedience to secret but imperative laws. Those great shining worlds that rest in the Dome of Immensity, apparently so silent and still, have been moulded out of nebulous and other matter, have been subjected to the action of fire, have been and still are the theatres of the mightiest upheavals and revolutions. Stars have grown into space, have revolved in their orbits, and have been broken into fragments, and these in turn have resolved themselves into gases, and these in turn have formed in the hands of the Almighty Creator the material from which new and more beautiful worlds have arisen.
 - 3. Give clearly the meaning of the following pena

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Sun and blue above you, see! Round you is the morning; Spring is breaking in the tree Spring with hope returning Courage then, despairing heart, (Links of love may sever, Friendship die and youth depart) Hope is young tor ever! While the tinted skies unfold Wonder lights of even;

While the stars are strewn like gold Down the arch of heaven; There are fields where you may toil, Space for high endeavour, Where the earth is rich with soil, Hope is young for ever!

- 4. Name and define the figures of speech contained in any three of the following sentences:-
 - (a) Cowards die many times before their deaths.
 - (b) He was not the master but the slave of his speech.
 - (c) Thrice is he armed that hath his quarrel just.

 - (d) His looks drew audience and attention.
 (e) No maden's hand is around thee thrown.
 - (f) Swiftly flies the feathered death.
- 5. Scan one of the following extracts, and name the metre in 16 which it is written :-
 - (a) Lightly they'll talk of the spirit that's gone And o'er his cold ashes upbraid him; But little he'll reck if they let him sleep on In the grave where a Briton has laid him
 - (b) Fear no more the heat of the sun, Nor the furious winter's rages; Thou thy worldly task hast done, Home art gone and ta'en thy wages.

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MR. SYAMAPRASAD MOOKERJEE, M.A., B.L.,

Head Examiner-RAI BAHADUR KHAGENDRANATH MITRA, M.A.

SRIMATI LABANYALEKHA BANERJEE, B.A.

Examiners—

SRIMATI LABANYALEKHA BANERJEE, B.A.

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SUNITIBALA CHANDA, M.A.

MR. KUMUDCHANDRA RAYCHAUDHURI, M.A.

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RAMRENU ACHARYYA, M.A., B.T.

SAURINDRAMOHAN MUKHERJEE, B.L.

TAMONASCHANDRA DASGUPTA, M.A.

ABDUL MAJID, M.A.

CHARUCHANDRA BASU.

,, CHARUCHANDRA BASU.

HEMCHANDRA VIDYARATNA.

Examiners—
(Contd.)

Mr. Rajendranath Kanjilal, M.A., B.L.
, Prabodhchandra Sen, M.A.
, Bishnucharan Bhattacharyya, M.A.
, Janardanprasad Chakrabarti, M.A.
, Jatindramohan Bagchi, B.A.
, Saratkumar Sengupta. M.A.
, Sibratan Mitra.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

T. Either, Give the gist of the lesson in 'Agni-Mantra' by 10 Keshab Chandra Sen.

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Or, State the ideas of Bankim Chandra Chatterjee as to what should be the principal aim of human life, as expressed in his articin

- 2. Explain with reference to the context any two of the following extracts:—
- (a) বাহুলতা বহিন্না রূপ থসিয়া থসিয়া পড়ে, তাই বলয়-চূড়-অনস্ত-বন্ধনে ধ্যা রাখিতে হয়। ভাল, জিজ্ঞাসা করি তাহাতে শোভা বাড়ে, না কমে ? তালও ত স্থরের নিগড়, ঐ নিগড় ভালিলেই কি ভাল ?
- (b) আর গ্রদিন পরে, বাঁহারা ইচ্ছা করিলে, তর্জ্জনীহেলনে দেশের লোক-মত পরিচালন করিতে পারিবেন, সেই যুবক-বৃদ্দ বঙ্গভাষার চর্চায় মনোনিবেশ করিয়াছেন,—বিশ্ববিভালরে বঙ্গভাষার আসন পড়িয়াছে, শেতনীপের মাতৃভাষার পার্ষে বঙ্গের খেতশতদলবাসিনীর আসন স্থাপিত হইয়াছে, বঙ্গের তথা বঙ্গভাষার ইহা পরম কল্যাণের কথা। বাঙ্গালীর ইহা মাহেক্সক্রণ।
- (c) আমি বলিতে পারি, সংস্কৃত সাহিত্যে কাব্য-ষজ্ঞশালার প্রাস্ত-ভূমিতে যে করেকটি জনাদৃতার সহিত আমার পরিচর হইরাছে, তাহার মধ্যে উর্ম্মিলাকে আমি প্রধান স্থান দিই।
- 3. What are the rites of Sati described by Madhusudan Datta in his account of Pramila's ascending the funeral pyre of her husband?
- 4. Explain any four of the following passages, giving full 12 references:—
 - (a) ধুতুরার মালা বেন ধৃর্জটির গলে।
 - (b) হে নিস্তব্ধ গিরিরান্ত, অভ্রভেদী ভোষার সংগীত তরন্তিরা চলিয়াছে অমুদান্ত উদান্ত অরিত প্রভাতের হার হ'তে সন্ধার পশ্চিম নীড পানে

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- (c) দিলে আজি দেখা ধরিতীর সহোজাত কুমারীর মত সরল স্থন্দর শুত্র।
- (d) ওরে বাছা মাতকোষে রভনের রাজি; বা ফিরি, অজ্ঞান তুই, বারে ফিরি ঘরে!
- (e) বাধিয়া পাষাণভূপ, অবনীতে অপক্ষপ দেখাইল মানবের কি কৌশল-বল প্রাচীন মিশরবাসী কোণা সে সকল ?
- 5. (a) Construct a sentence to illustrate the use of each of the following words:—

গড়ালিকা, অনাহত, তথী, অসুয়া and অনুলোম।

(b) Form adjectives from any six of the following:-

উপলব্ধি, আঘাত, সাহিত্য, পরিচয়, বায়, শ্রম, আরোহৰ, বিছাৎ, গান, and কৌতুহল।

(c) Form nouns from any four of the following:-

প্ৰপীড়িত, আহত, স্থগৰু, অনাদৃত, দক্ষ, বিপ্ৰ**লৰ, পরাক্রান্ত,** and অনভাস্ত।

6. Amplify the idea contained in the following passage:-

ধন্ত, আশা কুছকিনি! তোমার মায়ায়
অসার সংসারচক্র ঘোরে নিরবধি!
দাঁড়াইত দ্বির ভাবে, চলিত না হার!
মন্তবলে তুমি চক্র না পুরাতে যদি!
ভবিষ্যৎ-অন্ধ মৃঢ় মানব সকল
ঘুরিতেছে কর্মক্রেকেক্রে বর্তুল আকার
তব ইক্রজালে মৃগ্ধ; পেয়ে তব বল
ঘুরিছে জাবন-যুদ্ধ হায়! অনিবার।
নাচায় পুতুল যথা দক্ষ বাজিকরে,
নাচাও তেমতি তুমি অর্বাচীন নরে।

7. Translate into Bengali :---

When Nimai was a mere lad of fifteen years, the great sannyasi Iswar Puri used to pay a visit to Nadia now and then. The citizens of Nadia accorded a hearty welcome to the learned scholar and saint on those occasions. As a young boy Nimai also went to see him along with his friend Gadadhar; and as the sannyasi had a sweet and persuasive power of speech, everyone who heard him was impressed by the spiritual truths which he preached. Nimai also felt the fascination of his words, and sat for hours together listening to the discourses of the old man. And when he returned home, his mother Sachi Devi wept while embracing him with affection. 'Do not go to that

sannyasi any more, my darling,' she said one day weeping, 'I do not wish after what I have suffered, that you should go to any sadhu.'

Write an essay in Bengali on any one of the following:-

(a) What remedies would you suggest to remove the economic

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distress of Bengal?

(b) Take a survey of the village life of Bengal, past and present, and propose improvements which would make our villages habitable and prosperous on e more.

(c) Draw a plan of your library, showing what books it should contain, giving reasons for your choice.

HINDI

Paper-Setters { LALA SITARAM, B.A. PANDIT SAKALNARAYAN SARMA.

Examiners { Pandit Sakalnarayan Sarma. Mr. Nalinimohan Sanyal, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Summarize in Hindi the account of यहरंश का नाश as described in the Mushal-Parva.
 - 12 2. Explain any two of the following extracts in Hindi:-
 - मेच्याम सजल समृह ले मतंग भुंड (a) लाल स्वेत पीत बाजिराक तहरात है। गरक नगार धंधकार से कठीर घोर. मन्द मन्द सीर गजधंट घडरात हैं। पाव दल जावत से मान्त प्रचंड पूर्व स्यन्दन समुद्र बेलिइच यहरात है। पावस प्रभाव न बखानि जात वैजनाध बीजुली चमाक सी पताक फहरात है।
 - **(b)** चंपकलता की शेल की नहीं है तसाल शंग मानी कोऊ बाला वर पायो जनमाली है पुरम सुरंग खन्क फुलन की कारी रची मानी मनिचीकन की सखमा निराली है। द्रमन बसाये हैं विश्वंग बरबैनवारे मानी गान मंगल की विदित प्रनाली 🕏 । टंपति विवाद की जुळाह दीत टेखे जादि चानी याद्र वाग को प्रवीन कोल साली है :

- (c) कों तू भिर्व गुमान इतरात।
 इत उत चमिक फूलि निज इति पै रे खद्योत इठलात।
 है दिन चारि साहिबो तेरी जब ही लौं बरसात।
 तापै भानु समान होन को चरे मूढ़ खलचात।
 भानु उदय कोउ देखि न परिहै कांच न पुक्तिहै बात।
 रिव कुल रिव प्रताप के चार्ग रिपक्तल मानत मात ॥
- 3. Explain the following phrases:

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राय नाक्ति, जां निसार, सुंह को खाना, प्रेम प्रतिमा, प्रभंजन पुत्र, पुनक्ति कृपीत्रय, सुधाधर, यमयातना।

- 4. Explain the allusions in the following extract in Hindi:—
 जाय सीस वक धर्म दित यह सि सो दिया घाप है।
- 5. Give some rules for the formation of abstract nouns from verbs.
- 6. Summarize the following passage in Hindi:-

6 15

क्या विमा देश्वदेशान्तर भीर ही पहीपान्तर में राज्य वा व्यापार किये खदेश की छन्नति कभी हो सकती है? जब खदेश ही में खदेशों लाग व्यापार करने भीर परदंशी खदेश में व्यवहार वा राज्य करें तो विना दारिद्रा भीर दु:ख के दूसरा कुछ भी नहीं हो सकता। क्या सब बुद्धिमानों ने यह निश्चय नहीं किया कि राजपुरुषों में युद्ध समय में भो चौका लगाकर खाना भवस्य पराजय का हत है?

7. Translate into Hindi :--

15

To Babur, the founder of the Mughal dynasty, India is indebted for the introduction of its melons and grapes, and to his grandson Jahāngīr for tobacco. For the introduction of opium we have no date, and it is not even mentioned in the poems of Chand. This pernicious plant has robbed the Rajput of half his virtues, and while it obscures these, it heightens his vices, giving to his natural bravery a character of insane intelligence, an air of imbecility.

8. Frame sentences to illustrate the use of the following:-

10

तेवरी बदलना, घर करना, हाथ भाना, हाथ मलना, हाथों हाथ, हाथ पांव मारना, हाथ पसारना, सुड़ी गरम करना, सूठ मारना, भाख लगना।

9. Write an essay in Hindi on one of the following subjects:

- (a) हिन्दी साहित्य पर भँगरेज़ी का प्रभाव।
- (b) समाचारपर्वी की उपयोगिता भीर उनका जनता पर प्रभाव।
- (c) हिन्दुचों को सभ्यता का चसर पाशाच्य देशों पर।

ASSAMESE

Paper-Setters { SRIJUT JNANANATH BORAH, B.L. MR. SURYYAKUMAR BHUIYAN, M.A.

Examiner-Mr. Ambikanath Borah, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

8

1. Either, Trace briefly the growth of the conflict between capital and labour, indicating the future, as pointed out in ব্ৰভয়

Or, State briefly the hindrances in the way of universal brother-hood.

2. Either, State the main causes that contributed to the downfall of the Ahom Kingdom.

Or, State the general characteristics of the Ahom system of administration, with special reference to the powers of the sovereign and his ministers.

Or, What was the state of education in Assam during Ahom rule?

3. Write a critical estimate of *Kumār haran*, touching on the following points:—its diction and subject-matter, its appeal to readers, how, far it reflects the feelings and traditions of the Assamese people.

4. Explain, in Assamese, with reference to the context, one 4 × 4 passage from each of the following groups:—

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GROUP A

- (a) ধর্মভাবে যেনেকৈ হিংসাগ্নি জ্বলাই সহস্র বছর ধরি মানর-সমাজত প্রলয় মিলালে জাতীয়ভাবেও তেনেকৈ যুদ্ধ-বিগ্রহ করাই জগতক জ্বলাকলা করিছে।
- (८) যেতিয়া ৰাশুৱতে জাতিসমূহর মাজত প্রেমৰ আন্দোলন হব তেতিয়া ধর্মছেদ থাকিব নোৱাৰে।

GROUP B

- (") মানুহেই দেৱ মানুহেই সেৱ

 মানুহ বিনে নাই কেৱ।

 কৰা পূজা—অৰ্ঘ্য পাদোদক লৈ—

 জয় জয় মানৱ দেৱ।
- (b) জনপূর্ণ নির্জনত কতা লগৰীয়া । বিশ্ব সংসাৰত হায় অকলস্বীয়া।

GROUP C

(a) জন্নমতীয়ে জীৱন দান কৰি যি প্তনোশুৰ ৰাজ্য ঢোকা দি বাধিলে ভেওঁৰ নাতি বোৱাৰী সুলেখৰীয়ে সেই ৰাজ্যক আৰু অলপ হলালে।

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15

় (ঠ) এই দেশৰ প্ৰাচীন বাগীনাৰ সকল ছই শ্ৰেণীৰ, অসমীয়া আৰু কলিভা।

GROUP D

- (4) যতেক পুৰুষ আছে চৈধায় ভ্ৰনে। বেকত কৰিয়া পটে লিখিবোঁ এখনে॥
- 5. Frame sentences illustrating the meaning of any five of the following expressions:—

হাত দীঘল; পেট ভাটো; পানীৰ মিঠে; ভাতে-ভঁড়ালে খোৱা; পাই বুৰ মৰা; চাউল চুকা; ধোদৰ পচলা; লেৰেলা সাদৰ।

- 6. Translate into Assamese one of the following passages:-
- (a) The popularity of the Assamese Vaisnava dramas has continued till this day. The performances are known as bhāwanās and they are held in the nām-ghars or houses of public gathering attached to every Assamese Hindu village. The anniversaries of the saints and the important festivals of the year are occasions when these plays are enacted in the public halls without the aid of a stage or scenes. They are also performed on other occasions which necessitate a large congregation of individuals, such as marriage: and srāddhas, in temporary sheds erected for the purpose close to the residences of the individuals or families who perform the ceremonies. The Ahom monarchs honoured distinguished visitors to their courts by inviting them to witness the performance of bhāwanās arranged for that sole purpose. A stranger paying even a flying visit to any Assamese village will hear the music of drums indicating that rehearsals are going on for some dramatic entertainment. It has been customary with the Vaisnava satrādhikārs of the Assamese monasteries to give tokens of their learning and religious zeal by first composing a drama before they are formally ordained as pontiffs.
- (b) Thirty thousand souls were carried away by the Burmese from Assam alone. To cow the people they were flayed alive, burnt in oil, or driven in crowds into the village prayer-houses which were set on fire; women, old as well as young, were assaulted with every form of barbarity; sometimes bamboo cages would be constructed to burn men, women, and children two hundred or so at a time; and the more imaginative among the Burmese soldiers would add variations, such as cutting pieces off the bodies of their lingering victims, under whose eyes they would eat the raw flesh. Such being their energy, it is hardly surprising that the Burmese should, during the seven years of their intervention in Assam, have reduced the population by more than half, that some places are still suffeqing from this devastation and depopulation, and that in many a village to-day men speak with a dread and shudder of Mānar Upadrab, 'the oppressions of the Burmese.'
- 7. Give the substance, in Assamese, of one of the following passages:--
- (a) মহুশ্য-সমাজ এটা বৃহৎ বন্তৰ নিচিনা, আৰু প্ৰভোক মহুশ্য সেই বন্তৰ একোটা অজ বিশেষ। যিমান দিন এই অজবিলাকে নিজৰ

কৰ্ত্তৰা কৰ্ম কৰি থাকে. সিমান দিন সমাজ স্তকলমে চলি থাকে: বেতিয়া কোনো এটা অঙ্গই ভাৰ কৰ্ত্তবা কৰ্মৰ ক্ৰাট কৰে, তেভিয়া সমাজত বিল্ৰাভ উপস্থিত হয়, অর্থাৎ সমাজ-শঙ্খলাত আউল লাগে। মমুশ্বৰ কর্ত্তবা সং হোৱা। জ্ঞানৰ্দ্ধি উপাৰ্জ্জন কৰি নিজৰ উন্নতি আৰু আনৰ উপকাৰ সাধন কৰা মহুষ্যৰ কৰ্ত্তবা। পিতৃ-মাতৃ আৰু পুত্ৰ-কন্তাদি নিজৰ পৰিয়ালক পালন কৰা, আৰু ওচৰ-চবৃধিয়া বন্ধু-বান্ধবক সহায় কৰা মনুষ্যুৰ কৰ্ত্বয়। হিংসা-কপট পৰিত্যাপ কৰি দকলোৱে দৈতে মিলি থকা মহয়ৰ কৰ্ত্তবা। ভইবোৰ কৰ্ত্তব্যৰ ক্ৰটি কৰিলেই নৰ্দ্যান্তত বিশুখানতা উপস্থিত হয়।

- (4) সম্বানক সকৰে পৰা মহৎ আদৰ্শ দেখৱাই সৎসাহী আৰু চৰিত্ৰবস্ত কৰিবলৈ আৰু নতুন যুগৰ উপযোগী কৰি শিক্ষা দিবলৈ জননী নিজে শিক্ষতা হব লাগিব। মানৱ জীৱন অতি তুৰ্লভ বস্তু। এই পত্তেকীয়া মানৱ জাৱনত জ্ঞানৰ সমান অমৃত আন একো নাই। এই পবিত্ৰ জ্ঞানামূত্ৰ পৰা নাৰীক ৰাঞ্চত কৰি ৰাখিবৰ পুৰুষৰ একো অধিকাৰ নাই বছতৰ বিশাস যে তিৰোতক অজ্ঞান-তিমিৰত ব্যাই ভাল, কাৰণ শিকাৰ পোচৰ পালে বোলে তেওঁ লোকৰ নাৰীত্ব আৰু মাতৃত্বত অশেষ বিঘিনি জন্মে। এনে ধৰণৰ অন্তত মতাৱনস্বীসকলক আমি এটি উপমা মাণোন দেখুৱাওঁ। ধৰা, কোনো গৃহস্থ বাৰীত আম আৰু লেচু গুজোপা পছ আছে। গৃহস্থই যদি হজোপা গছত যত্ন কৰি সাৰ দিয়ে তাৰ পৰা লেচুৰ "লেচুত" আৰু আমৰ "আমত্তৰ" পূৰ্ণমাত্ৰা বিকাশ হব. আম আৰু লেচু গৈ একেজাতীয় ফলত কেতিয়াও পৰিণত নহয়। সেইদৰে তিৰোজাক শিক্ষাৰ সাৰ দিলে নাৰাত্বৰ সক্ষান্ধ বিকাশহে হয়, ভাৰ লোপ হবৰ কোনো সম্ভারনা নাই।
 - 8. Write an essay in Assamese on one of the following subjects:---

(a) The purds system, with special reference to the custom in vogue amongst the Assamese people.

(b) The present system of education; its merits and defects, with suggestions for its improvement.

(c) The various means of livelihood open to an educated young man in Assam.

(d) The martyrdom of Princess Jaymati.

(e) Plain living and high thinking.

(f) One of the following Assamese celebrities:—Purnananda Buragohain, Haradatta Chaudhury, Anandaram Dhikial Phukan, Bholanath Borooah, Abdul Majid.

ORIYA

Paper-Setters— { Mr. Kasinath Das, M.A. REV. Brajananda Das, B.A.

Examiner—Rev. Brajananda Das, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate any one of the following passages into Oriya:-
- (a) A villager had a beautiful thatched cottage to live in, but he was worried by small birds who used to flock on the roof for straws to prepare their nests. The villager tried all devices to frighten the birds away, but with no success. Eventually he was so upset that one day he took a match-box and began to throw the lighted sticks one after another on the roof. Subsequently the cottage was on fire, and he went from village to village telling every one he mes that he had removed the root-cause of his trouble, and the pests would no longer be able to worry him.
- (b) Disappointed in his endeavour to conquer the south. enfeebled in health, distrustful of his sons and of all the world, Aurangzeb passed some of the most unhappy days of his life immediately before death. In the north he had alienated the Rajputs and other Hindus who had been a stay and support to the Both Akbar and Aurangzeb were famous for bravery in var and for abilities in administration, but Aurangzeb was distinguished by a narrow bigotry which wrecked the great empire which he had inherited.
 - 2. Write an essay on any one of the following:-

 - (a) Knowledge is power.
 (b) Any great Indian hero or reformer.
 (a) Any Indian festival.

3. Explain the following with reference to the context:-

ଚିଲିକା, ରୋହର ଏହି ଗୋରାବନ ବର୍ଗ୍ତୋସ୍ବମୟ ଦୃଷ୍ୟ ସାଯ୍ନ୍ତନ, ଅଧେ ସର୍ବ ଗୋରା ସୀମନ୍ତର ଧୀଳା ପ୍ରକୃତିର ରାରୁ ଆଲେଖ୍ୟ ଗାଳିକା ଏ ସୁଖର ମୁହିଁ ନୁହର ରୀଳନ ମୋ ରାଗ୍ୟେ ଏ ସିନା ରଙ୍ଗୁର ସ୍ୱପନ ସଂସାର -ନିଗଡେ ସଂସାର -କାରାରେ ଯାପିବି ଜୀବନ ସଠା ହାହା କାରେ ॥ ସୁଖରୂପେ ଯାହା ଜନ ନେତ୍ରେ ଦିଶେ, ହାରେ ଆସେ, ହାହୁଁ ପଡିବା ପାଇଁ ସେ, ବସ୍ତୁ ନୁହର ସେ ଅଧର ଧିଧୂମ ଅନ୍ୟ ନାମ ଭାର ଆକାଣ-କୁସୁମ ॥

4. Rewrite the following in your own words:— ଅଟ୍ନେମାନେ ଯେବେ ଯଥାର୍ଥ ମନୁଷ୍ୟ ହେବା ବେବେ ସଠୁତ୍ତି. ମାନ କଦାପି ମିଥ୍ୟା ବୋଲି ବିମ୍ବାସ ହେବ ନାହିଁ। ବିଜ୍ଞାନର ସ୍ଥାନାବରୋଧକତା ନିଯ୍ମାନୁସାରେ ଯେଉଁ ହୃଦପ୍ରେ ବିଷଯ୍-ବାସନା ପୂର୍ଣ୍ଣ ଅଧିକାର କରି ଅଛି, ସେଠାରେ ସାଧୁରାବ କଦାପି ସ୍ଥାନ ପାର୍ଚ୍ଚ ପାରେ । ସେହି ହେତୁରୁ କଟେ ମହା୍ମା କହି ଅହି ଅନ୍ତର୍ଜ୍ଭ ଏକ ମନୁଷ୍ୟ ଦୂର ପ୍ରମ୍ଭର ଦାସରୁ କରି ନ ପାରେ ॥

5. Frame sentences to illustrate the meanings of the following: — 10
((a) ଚାଲିଲା ଶଗଡରେ ହାର ଦେବା,
(७) କ୍ଲାଇ୍ ପଡିଲେ ଡେଇଁବା,
(c) ଦାଉ ସମ୍ଭାଳିବା,
(d) ବିରାଡି ବ୍ଲିକିବା,
(e) ନଘନ ଦେଖୁଁ ଲଫ୍ଲା ।
6. Fill up the ellipses in the following:—
କିନ୍ତି ସମ୍ମୟା ସମସ୍ତେ ନୀରବ ରହିଲେ, ପରେସ୍ୱାଃ ଅପୂର୍ବ
ଜଣ୍ଡ ଜଲେ, "ମୁଁ ବୁଝୁଛି, ଏପରି ଜୁମ୍ବାନରେ
—— ଦେବା ଉଚିତ ——, କିନ୍ତୁ ମୁଁ ବ୍ଲିର —— ଥାରୁ ନାହିଁ ।
ୀ ର୍ଯ୍କୁ କରିବାକୁ ମୁଁ ଚେଷ୍ଟା କରୁଛି, କିନ୍ତୁ
ନାହିଁ ॥
7. Change the voice in the following:—
(a) ମହାରାଳ ଦଣରଥ ପୁଦ୍ର ଶୋକରେ ପ୍ରାଶତ୍ୟାଗ କଲେ ।
(७) ପ୍ରରୋ, ମୋହର ମନୋରଥ ପୂରଣ କର ।
(c) ବର୍ତ୍ତମାନ ପ୍ରବନ୍ଧି ପ ିତ ହେ ଉ ।
(d) କାହିଁ ସେ ପକ୍ଷୀଃତ ଆଡ୍ ଦେଖା ଯାଡ୍ ନାହିଁ ॥
8. Substitute single words for the following:— 7
ଅନ୍ୟ ପରି ଯେ ବିଶେ, ଗମନର ଯୂଛା, ସ୍ୱପନର ଯୂଛା,
ହୁତ୍ୟା କରିକାର ଇଚ୍ଛା ॥

URDU

Paper-Setter-Maulvi A. F. M. Abdul Kadir, M.A.

Examiner-Md. MAHFUZAL HAQUE.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

8

- 1. Give a brief summary in Urdu of Muḥsin-ul-Mulk's discourse on modern education and culture.
- 2. Summarize, in your own Urdu, what Hālī has said about Sa'dī's early life and also indicate how he differs from Sir Gore Ouseley in fixing the date of his birth.
- 3. Either, Rewrite the following lines in simple and idiomatic Urdu, explaining any unusual words and phrases:—

سبعان الله! سر آغاز فصل میں ایسے نمرھاے پیش رس کا پہنچنا نرید ھزار میمنت رشادمانی ھے یہ نمر رب النوع انمار ھے اسکی تعریف کیا کروں کلام اس باب میں کیا چاھتا ھوں کہ میں یاد رھا اور اھدا کا آپ کو خیال آیا ۔ پروردگار آپ کو با ایں ھمہ رواں پروری و کرم گستری و یادآوری سلامت رکیے ۔ جمعہ کے دن دو پہر کے وقت کہار پہنچا اور اسی وقت جواب لے کو اور آم کے در توکرے دیکر روانہ کیا یہاں سے اسکو حسب الحکم کچھہ نہیں دیا گیا *

Or, Summarize the remarks made by Muḥammad Husain Āzād on the relative merits of Urdu and English styles in writing.

- 4 Discuss. in your own Urdu, the special features of the poetry
 of Mir Alia, giving a brief outline of his life.
- 5. Explain, in clear and easy Urdu, one only of the following 8 extracts:—

منه دهرف جر آنکهه ملتی آئی

پر آپ وه چشم حوض پائی
دیکها تو وه گل هوا هوا تها

کچهه اور هی گل کهلا هوا تها
کهبرائی که هیں کدهر گیا گل
جهنجهلائی که کون دے گیا جل

(6) طی کر چگا جو منزل شب کارد ان صبح

هونے لگا افق سی هریدا نشان صبح

گردر سے کرچ کرنے لگے اختران صبع

هر سو هوتي بلند صدائ اذان صبع

پنهان نظر سے ردی شب تار هو گیا

عالم تمام مطلع انوار هو گیا

یوں گلشن فلک سے ستارے هوئے ردان

چن لے چمن سے بھولوں کو جسطرح باغبان

آئی بہار میں گل مہتاب پر خزان

مرجهائے گر گئے نمر و شاخ کہکشان

دکھلائے طور بان سحر نے سموم کے

دیومرد هوئے رہ گئے غنچے نجوم کے

6. Use the following words in short sentences of your own indicating their genders:—

ماہ ۔ شگرفہ ۔ تھائھہ ۔ فاتحہ ۔ تن ۔ لکن ۔ وفا ۔ جفا ۔ تعوید ۔ عرض ۔

7. Reproduce the following lines in simple Urdu:—
میاں! تمہارے کمال کا حال معلوم کرکے میں بہت خوش ہوا
اگر مجھکو کبھی انگریزی لکھوانا ہوگا تو یہاں سے اردر میں لکھکو
بھیجدونگا تم وہاں سے انگریزی لکھکو بھیجدیا کونا ۔ '' قصط قاصدان
شاہی'' میں نے دیکھا اصلاح کے باب میں سونچا کہ اگر سب فقرون
کو مقفی اور عبارت کو رنگین بنائے کا قصد کروں تو کتاب کی

صورت بدل جائيگى ارر شايد تمكر بهي منظور نه هو ناچار اسپر تناعت كى كه جو الفاظ أكسال باهر تيم وه بدل داليه مثلا " رس " كه يه گذارر بولى ه " وه " يه آهيآهه اردو ه " كرانا" يه بيرونجات كى بولى ه " كررانا" يه فصيم ه " راج " يه غلط ه " راجه " صحيم ه *

8. Translate the following lines into simple and idiomatic 15 Urdu:—

Al-Mas'ūdī, the historian, relates the following anecdote of his prudence and sagacity:—Being sent by Abū Muslim to accompany the expedition against the Governor of Irāq, he and the general halted to take breakfast at a rillage on the way, when suddenly a herd of gazelles rushed from the desert, and ran into camp amongst the soldiers. 'General'! exclaimed Khalīd, 'order the men to mount at once.' Seeing no cause for alarm, the latter asked him what he meant. Khalīd replied, 'The enemy are close upon us; nothing but the march of a large force would have driven the wild creatures from the desert into our camp.' The troops were scarcely mounted, before an advancing hostile squadron was seen in the distance, and the truth of Khalīd's deduction proved.

9. Write an essay in Urdu on one of the following subjects:-

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ے شک ادھر بھی آئگا جھونکا نسیم کا

(c) Doctor Nazīr Aḥmad: his early life; his literary activities; the part he played in developing the Urdu Language and Literature; his social works; his pla e among the Muslim reformers of India in the last century.

PERSIAN

Paper-Setter and Examiner-AGA MD. KAZIM SHIRAZI.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Give in your own words the description given by either H.M. 10 the King of Persia of his visit to the Zoological Gardens of England or of his visit to Madame Tussaud's Exhibition.

2. Construct short sentences using the following expressions illustrating their meanings:—

ملتزمین رکاب - طاق نصرت - تا دم بله - بشتک زدن - معلق اوس - احترامات نظامی - سیم شبکه - قشون ساخلو

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5. By whom and on what orcasion were the following remarks 14..made? Translate them into English:—

ارل - بهر چه امر یا نهی نرم جد نمودم ر آنرا بازیجه نشمودم درم - در رعد ر رعید تخلفرا هرگز جایز ندانستم سوم - جنگ کردم برای فایده نه از رری هو ا چهارم - دلهارا جنب کردم بمعبت بدرن کراهت و بترس بدرن کینه پنجم - عقاب کردم بسزای گذاه و جزم نه از جهت تغیر و غضب

4. Translate into Persian :-

When the gardener had dug down to a certain depth, he felt something resist the spade, and immediately discovered a gold box about a foot square, which he showed to the princess. 'This,' said she, 'is what I wanted here: take care you do not injure it with your spade.' When the gardener had got out the box, he gave it to the princess. On opening it she found it full of pearls of moderate size. They were all equal, and fit for the purpose for which they were wanted.

5. Form words with any five of the following, and give their 10 meanings:—

رر - چى - خرار - زار - سار - گين - گر - دان - فام 6. Give in simple Persian the substance of the following :—

روزی از کنار بیشهٔ عبور میکردم دیدم موشی بجهد تمام ریشهٔ مرخت را از دندان ازه صفت منفصل میسازد - درخت بزبان حال در آمد رگفت ای ستمگار دل آزار چرا بنیاد حیات مرا زیر ر زبر میکنی - موش بزاری او التفات نه نمود و مشغول جفا کاری خود بود که ناگاه ماری دهان گشاده بیکم موش را فرر بود *

قبطعه

خریش را سوزه ار نکو بیدی هر که از ظلم آتش افررزه دیدهٔ کآتش از چنار جهد همه بیرند خریش را سرزه

7. Write an essay in Persian on one of the following: 20

- هرچه کنی بغود کنی گر همه نیک ز بد کنی (a)
- (b) The value of education.
- (c) A description of the Baqar Id festival.

MAITHILI

Paper-Setter-Kumar Ganganand Singh, M.A.

Examiner-PANDIT DEBANANDA JHA.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

I. Fully explain in Maithili, with reference to the context :-

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परदेस गमन जनु कर इ कन्स पुनमत पाव चरत वसन्त ॥२॥ को किल कलर वे पूरल चृत जनि मदन पठा चोल चपन दृत ॥४॥ के मानिनि चावे करति मान विरहे विषम मेल पखवान ॥६॥ बह मल्यानिल पुरुष जानि मार्ए पचसर सूमिर कानि ॥८॥ विरहे विखिनि धनि किङ् निह भाव चानने कुड्मे मखि लगाव ॥१०॥ विद्यापित भन कग्छहार कर्णाराध वन विहार ॥१२॥

- 2. Briefly give the Synopsis of the first four Cantos of the 15 Krishnajanma of Manabodha.
- 3. Either. Which is your tavourite character in the Sundarasam-yoga of Jivan Jha and why?

Or, Write after Lāla Kavi (the author of the Ganesa Khanda) the importance of the offerings to Vishnu.

4. Give the purport of the following extract in Maithili:- 15

इमारा लाकनिक समाज जलन प्राचीन जिल । जन्य प्राचीन समाज जकां जिह समाजक प्राचीन कोर्ति गौरवपूर्ण होता । चोकर स्मृति एखन इ कर्तमान होता । प्रस्तिक प्राचीन कोर्ति गौरवपूर्ण होता । चोकर स्मृति एखन इ कर्तमान होता । प्रसारक परिवर्तन के ई जोतिक महत्व नांह देत जिल जनक जोकारा दंव उचित । कालक्यी जनक प्रवाह चपना संगे गौरव, मर्यादा, कार्ति सव लेन वहल जाइत जिल । मैथिल समाज क्यो तिर्चा तटस्य जिल । जगना एहि दृनूक व्यवधान चया चया बढ़ ले जाइत होता । यदापि प्रवाहक हिलोड़ सं कावन इ काल के के के के के जोरक होता चिक तथापि जाता गौरव स्मृति क लहुन एड़ेन हद होता के के जोरक चाही, कार्ति वर्ष पिहने । समस्या जाव उपस्थित जिल के करना को किन के गौरव चाही, नर्यादा चाही, कीर्ति चाही चयवा जोकर स्मृति । युवक चतीत क करना करना चाही, कार्यादा चाही, कीर्ति चाही चयवा जोकर स्मृति । युवक चतीत क कर्मना करना चाही, कार्यादा चाही, कीर्ति चाही चयवा जोकर स्मृति । युवक चतीत क कर्मना करना चाही, कार्यादा चाही, जायतस्त्रावस्था सं जायतावस्थाम जो चवत चाही। स्वीत चाहि । स्वीत चाही

भनना कालक प्रवाह के। भनुभव करें त भक्त भीहि व्यवधान के जि भीकरा तथा काल का बीचमें पड़ि गेल के का। अधोर भय जाइत भक्ति। कृदि पड़ें त भक्ति तरियों मं जक्तमें। यित लगा देत भक्ति तरियों के भूमिगत लङ्गर सं मुक्त करवा ली। वह सर्थाक भय जाइत भक्ति। शियु भयभात भय जाइत भक्ति। युवक कहेत भक्ति 'कांनी उर नहि-रचा हम सबहक करव''। येह कै क संसार क प्रति यवक क संदेश।

5. Translate into Maithili :--

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Lord Cornwallis had only the experience and the legacies of failure to guide him. Pressed for ways and means, and anxious for reform in more departments than one, he committed himself to a policy which in regard to the three interested parties—the Zamindar, the Ryot, and the Ruling Power—assured the welfare of the first, somewhat postponed the claims of the second, and sacrificed the increment of the third.

6. Construct sentences to explain the following proverbs:

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- (a) करिया काका एक त गोरे वड़ दासरे नहयने भवेत छा।
- (b) गोरि माउगि गौरवाइ चान्हरि।
- (c) छोट खिखिर के मोट नांगांड़।
- (d) उड़ल सातु पितर के प्राप्ति।
- (e) पेट करे कह कह जुड़ा करे मह मह।
- 7. Write an essay in Maithili on any one of the following 20 abjects:—
 - (a) The salt tax campaign of Mahātmā Gāndhī.

(b) Modern Maithili.

(c) Mahārājādhirājā Sir Rameswar Singh of Darbhanga.

MARATHI

Paper-Setters { Prof. D. R. Bhandarkar, M.A., Ph.D. Mahamahopadhyay Pandit Sitaram Sastri.

Examiner-Mahamahopadhyay Pandit Sitaram Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Write an essay in Marathi on any one of the following:-
 - (a) God made the country and man made the town.

(b) The qualities that make a great man.

- (c) The value of a classical education.
- 2. Translate either of the following passages into Marathi:-
- (a) Many tribes still live exclusively, or almost exclusively, on wild animals, the produce of hunting or fishing. Their clothing is skins; their habitations, huts rudely formed of logs or boughs of trees, and abandoned at an hour's notice. The food they use being little susceptible of storing up, they have no accumulation of it, and are often exposed to great privations. The wealth of such a community consists solely of the skins they wear: a few ornaments, the taste for

which exists among most savages; some rude atensils; the weapons with which they kill their game, or fight against hostile competitors for the means of subsistence; canoes for crossing rivers and lakes, or fishing in the sea; and perhaps some furs or other productions of the wilderness, collected to be exchanged with civilized people for blankets, brandy, and tobarco; of which foreign produce also there may be some unconsumed portion in store.

- (b) At this time there came a strange woman to the king, and offered him nine books of the prophecies of the sibyl for a certain price. When the king refused them, the woman went and burnt three of the books, and came back and offered the six at the same price which she had asked for the nine; but they mocked at her, and would not take the books. Then she went away and burnt three more, and came back and asked still the same price for the remaining three. At this the king was astonished, and asked of the augurs what he should do. They said that he had done wrong in refusing the gift of the gods, and bade him by all means to buy the books that were left. So he bought them; and the woman who sold them was seen no more from that day forward. Then the books were put into a chest of stone, and were kept underground in the capitol, and two men were appointed to keep them, and were called the two men of the sacred books.
- 3. Sketch the characters of रंगराव चापा and सयादुज्ञाखान from Ushah-kal.

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- 4. Explain with illustrations what you understand by 'Koti.'
- 5. Give the sense of the following in Marathi:-

ती धीरादात्त मूर्ति तशीच हाती. षंगकांति केवळ दैविक मध्यरीराभोंवतीं जण्ं काय एक प्रकारचे तेजांमंडळ तळवत हातं. चाणि त्या तेजोंमंडलाच्या चलीक पुरुष्प्रतापाचे एक मंडल पहिल्या तेजोंमंडलाइन हो विशेष उद्दीत घसे दिसत होते. केवळ जे हट यहेने, पूर्णभक्तीने चाणि सत्यनिष्ठने समीप जाऊ पाहतील, त्यांसच त्या प्रतापापासून चगर तेजा पासून चास होचार गाही हे उघड होते. ग्रंड निचालंक चसा ज्यांचा चात्मा नाही त्यास पुटे जाणे सुद्धां शक्य नव्हते. चारही प्रकारचा योगाने जान होऊन पूर्ण ब्रह्मजान भालेल्या व्यक्तीची जो स्थिति होते तीच स्थित चगदी पूर्णपणे यापुण्य पुरुषाची भाली होती चसे कोचासही वाटले चसते. देहाची चग्रमाव काळजी नसतां देह उत्तम प्रकाराने वांचला जाणे हे चन्तःकरच प्रकारचे लेचण ?

- 6, Give some extracts from प्रेमका चौकिक which will show the social and moral thoughts.
 - 7. Explain in Marathi the following .-
 - (4) कांची एकाविया पोरें केखी माळी।
 टावी नाडीं पोळी माने देखी ॥
 वुकाविक्षे डातों देखनी खापर।
 इंद करकर वारियेखी ॥
 तैसी नकी कर मंत्र इपावंता।
 काय नाडीं संचा तुकी डातों ॥
 तुका इन माय-वार्षाचे डचित।
 करावें डेंडीत वाळकांचे ॥ १ ॥

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भगवे तरी श्रान सद्धन वेष लाचा। तेथे जनभवाचा काय पंच॥ वाढवनी जटा फिरे टाई। टिशा। त्री जंब-वेषा सहज स्थिती॥ कोरा निया भूमि करिती मधीवास। तरी चंदरास काय वाणी॥ तका द्वारी ऐसे कासया करावें। दे हासि दखावें वालगंचि॥ २॥ क्रियेवीय माना परी बोलिजेते'। (b) परी चित्त दक्षित्त ने लाजवीते ॥ मना कल्पना धीट सैराट धांवे। तया मानवा देव कैसेनि पावे॥ १॥ विवेके क्रिया भा भी पालटावी। भतौ भादरें ग्रुड बड़ी धरावी॥ जनीं बीलक्या सारिखें चाल बापा। मनौं कल्पना सीच मंसार तापा ॥२॥ वरो सान संध्या धरी एक निष्ठा। विवैक्ते मना भावरी स्थान स्रष्टा ॥ दया सहै भूतीं जया मानवाला। सदा प्रेमळ भक्ति भावें निवाला ॥३॥

RHASI

Paper-Setter-Mr. Roy Rowland Thomas, M.A.

Examiner—RAI BAHADUR DOHORY ROPMAY, B.A.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate	the following passage into Khasi:-
	short period of time, and with far less preparation
	the stage of opportunity for women towards which have worked during centuries of literary st
	as developed almost accidentally and by force ractors rather than as the result of any delibera
purpose of emanc i	ipation.
2. Compose a	short story in Khasi to illustrate the maxim the

Compose a short story in Khasi to illustrate the maxim that bonesty is the best policy.

3. Iathuh lyngkot shaphang Ka jingmih jong ki S'iem Syntang, Nongkhlaw, Nongspung, Nongstoin, Myriaw, Langrin, bad Susong—Durgapur.

4. Jathuh bniah kat kum U Mongthoh jong 'Ki Jingmlien Ha Ka Kam' mano ba ioh brabor ia 'Ka jingjop bad ka khusnam.'

5. Explain with reference to the context:—	15
Nangta sa ban iapoi h'u shnong h'u thau, Ban hap iasieu katba thore ka kau, Lada ia don i khun kynthei shynrang, Sa ban buddien ka kyndah kyndon sang.	
6. Write an essay on one of the following subjects:—	20
 (a) The choice of a profession. (b) Female education in India. (c) Ka Shad Nongkrem. 	
7. (a) Don ki jaid briew kiba duh thiah haba shem bha ki kha ki man. Bad ki iap kut kum u bun ha la ka jong ka tdem.	7
(b) Ha u maw uba tyllum ym ju soh niut maw. Amplify these two proverbs in Khasi.	8

NEPALI

Paper-Setters— { RAI SAHIB HARIPRASAD PRADHAN, M.A. BODHBIKRAM ADHIKARI, M.A.

Examiner-Major S. Thappa.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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- 1. Translate into Nepali any two of the following passages
- (a) Whenever we worship we should have in mind the thought of India as a whole, and its people as one, in spite of all the differences that exist. Through India we ought to send out spiritual force to the whole world, because India always has been and always will be the spiritual centre of the world. Go back to the great Rishis as they sat in meditation on the banks of the Ganges, they thought of India as one: its rivers, its trees, its holy places. If in our worship each person is merely thinking of his own evolution, we shall fail. We must regard ourselves as creative forces making for unity. As in the time of your forefathers, meditate on the unity of India and the one life which pervades it. Then it will be one real and wonderful to you.
- (b) After the bath we generally put on clean clothes. But it often happens that you put on clean clothes culy on top, and below or round the waist you keep a dirty cloth, probably because it does not show. I remember once visiting a temple at Conjecteram. At one of the tanks a priest was taking his bath. When he came out he put on a clean dhoti, but kept still the dirty cloth, which he had around his loins. I knew he was going to function as a priest in the temple, and I was much surprised to see him perfectly contented to keep that dirty cloth under the clean dhoti. The majority of people do not seem to realize that if they wear any soiled clothes they cannot be really clean, and yet they consider themselves Brahmins and are afraid to come near the parish. They go to the temple and feel holy and perfectly clean.

- (c) We must conquer the world, beautify the world, and get all the experience of the world, and then we can throw aside all the trivial things of the world. We must perfect every little thing around us, every little thought and feeling and action. We must be constantly on the watch lest slovenliness creep into mind or action. It is the mind chiefly that has to be purified and made clean, the mind that has to be made simple. Then we shall become fit to worship truly, then we shall become of real use to the Masters, to the Devas, to the Lord.
- 2. Explain and expand in Nepali the ideas contained in one of the following passages :-
 - अघि भट क्षविजाको नाय ! संगत क्चायौ। (a) चटपट गज को त्यो प्राचनाधा कतायी॥ इडबड गरि इमेत द्रीपदी की बचायी। किन किन अब द्वासा पालिमा ता दिलायी॥
 - (b) तनमल पर सारी चित्त यो ग्रह पारी। प्रक्रति तिर लतारी, शक्ति दैवी उमारी॥ अघि जति हन गाको पाप हासी निखारी। यदक्कलमिष । हास्रो जाति देज सपारौ ॥
- 3. Depict and compare in Nepali the characters of Karna and 15 Arjun.
- Write an essay in Nepali on any one of the following 80 subjects :---
 - (a) The value of cultural education.(b) Universal Brotherhood.

 - (c) Unemployment in India.
 - (d) The natural beauties of your country.

BURMESE.

aper-Setters— { MAUNG WE LIN. MAUNG BA. B.A.

Examiner-Prof. PE MAUNG TIN, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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. (က) ရေဇကြိုဖြတ်ထုံးတွင် ပါရှိသည်အတိုင်း။ ငအိသားငဦး ကိုနှင့်ဇေယသူကြီး ငကြီးတို့ယောက္ခမ သမက်အထက်ဖြစ် ရင်း လက်ဖွဲ့ရင်း လယ်မြေရပ်ကြောင်း။ ၂ ဦးလှဆိုကြသည် အမှုတွင် တရားသူကြီးထင်မြင်ယူဆချက်ကို ရေးသားဘော် ပြပျိ။

သွိမဟုတ်

ရေ ဇ ကြို ဖြတ်ထုံးတွင်ပါရှိလည်အတိုင်း ခုံတော်**တို့ သစ္စ**ာ မိဋ္ဌာန်ပြုရပုံအကြောင်းကိုရေးသားဖြေဆိုပါ၊

(ခ) အောက်ပါစာပိုဒ်သည် မည်သည့် အ ကြောင်း အ ရာနှင့် စစ်လျဉ်းရွှဲရေးသားကြောင်းဖြေဆိုပါ။ နေ့မရဲသူ။ ကဲမတူ၍။ လူသာမာန်စား။ လားလားယုတ် မာ။မဟုတ်ရာဘူး။ဂဏာနို့ခဲ။ ထမင်းထဲမှာ။ တွဲ့ရွိယူဆောင်။ ဥသျှောင်ရတနာ။ တို့နှင့်သာလျှင်။ မရာတန်ရေး။ မယား မို့ ပေးလျှင်လည်း။ ကြေးငွေဒင်္ဂါး။ ပိုက်ဆံများသာပ။ မ ယားမဆိုး၊ လင်မဆိုး။ သူခိုးဖြင့်မဟုတ်ဘူးဆိုစို့။ ။

(ဂ) သုတသောမပျို့တွင်ပါရှိသော အောက်ပါစာ ပိုဒ် ၏ အ နက်အမြိပ္ပါယ်ကိုသော်ပြပါ။

မကြာအသက်။ လျှင်တပြက်မျှ။ ကွေးလက်မဆန့်။ ခဏခန့် ကြောင့်။ ပစ်စွန့်မရဲ။ ရသာစွဲကာ။ အမြဲရှည်ကြာ။ သံသရာ ကို။ ပမာနှိုင်းကြ။ ကြံတွေးဆလော့။ ဉာဏမဆန်။တိရစ္ဆာန် သို့။ မဖန်မေ့ကာ။ မှတ်မဲ့သာလျှင်။ အိပ်ကာစားကာ။ မကျင့် ရာတည်။သူငါမလွတ်။သက်ကြွင်းမှတ်၍။ဥပါဒ်ဋီတင်။ တွက် ကျုံးလျှင်မှု။ ဘဝင်ဆိုက်ကာ။ ခြောက်ခုဒွါ၌။ တဒါရုံဇော။ ၇င္ဘောစလနာ။ သတ္တရဝယ်။ ခဏငယ်ကား။ ငါးဆယ်ပြည့်ဖြိုး

တခုတိုးတွင်။ ညှိုးကြခန္ဓာ။ မရဏာလည်း။ အကြာမသွက်း ဇောင်းချက်မျှ။ ပျက်ကြတစု။ ပမာပြသော်။ ရှင်မျှမရှည်။ တို့ လူပြည်တား။ သေရည်မ်းတောက်။ ခဏပျောက်လို။ မ ဖေါက်မလွှဲ။ သံမှိုစွဲသို့။ အမြဲမှတ်ထင်။ စည်းဖိမ်ခင်၍။ အ ကြင်ရသာ။ မမက်ရာသည်။ ။ ပါယ် ရွာ အ မှားမည္ဘာ ဘာတည်း။ ။

- (ည) မောင်ကုလားမဟာရာဇဝင်ကြီးတွင် ပါရှိသည်အတိုင်း အ နော်ရထာမင်း အကြောင်းကို အကျဉ်းအားဖြင့် ရေး**သား** ဘော်ပြပါ။
- 2. ဗောက်ပါစာပို် ခါအာမြေး ပြေရေးသားဘော်ပြပါ။

ညဉ့်ယံအခါ။ ပတ်သာစည်ပုတ်။ တီးကြမှုတ်သို့။ တီးတုတ်ညည်း ညည်း။နရည်းလိုလို။ဖိုကသွေးယူ၊မကမြူ၍။ချစ်သူကြင်ဘက်။ရွှင်ကြ လျက်လျှင်။တောင်လက်ခါတုံ။ စီ၁နွံ့တိုနှင့်။နှတ်္ခီယူသယ်။ လူနှယ် ရည်းငံ။ဖြည့်ဖြူးသံနှင့်။ သက်နှံကျွမ်းဝင်။မွှမ်းမွှမ်းဖြင့်မျှ။ တောင်တန့ လည်းရှက်။မြွေဘာ်ငှက်လည်း။ မြေထက်ပဲအောင်။ ဘားအရောင် နှင့်။ဘိုးခေါင်ကျူးထိတ်။ကရဝိတ်တို့။ ချစ်စိတ်မှုဝေ။ ရန်စဖြေလျက်။ သိံမြေမြေက်။စာပေတျက်လည်း။မောင်းနှက်နာရိုးလျှောက်ချီပဟိုရို၊ မှန်စေဆိုသို့။လေချိုညင်းညင်း။ရစ်လာသွင်းကဲ။ စောင်းငြင်းတူယိုး။ ရွှေပြည်စိုးတုံ။တည်ိုးညင်းညှင်း။လွှမ်းရေးခင်းလျက်။ လူမင်းအသွင်။ တိခ်ပြင်ရှက်နွယ်။ ကောင်းကင်လယ်က။ ညာဘယ် ထက်အောက်။ ရှေ့နောက်ရံကားကျူးသံသာနှင့်။ငါးရာသုံးထောင်။ ရွေမျာ့ဘောင် ဝပ်ပါးနှစ်ကောင်ကြင်ဘာက်။ လှိတ်ခက်ကို။ နွတ်စက်ချကိုက်။စီးကာ လိုက်သား။ဦးငိုက်လည်မော့။ဥဪာ့သဘော။ ရှုမော်ဘွယ်တို့။မြင့် သည်ရှိလည်း။မျက်စြမညောင်း။ နွေသစ်လောင်းရွှဲ။ တပေါင်းအခါ။ ရောက်ပြန်လာင်သဉ်။ ရှိုးညှှာရွက်လှန်။ ပန်းမာလ်ပုံမြီး။ ညီရရိုး၍။ ခြောက်သီးမုံးစွန်။နန္မဝန်နှင့်။ ျသဏ္ဌာန်ဆွယ်လိခ့်မည်တမှု။

- 3 မြန်မာစၥစီကုံးရေးသားရာ၌။ဝတ္ထုသွားရေးနည်း။ရာဇဝင်ရေးနည်း နှင့်။မေတ္တာစာရေးနည်းတို့မည်ကဲ့သို့ခြားနားကြောင်းဘော်ပြပါ။
- **4. အောက်ပါ အချက် သုံးရပ်အနက် တရပ်ရပ်ကို ရွေး**ကောက်အ ကြောင်းပြ၍စ**ာစီကုံးပါ။**

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- (က) မြန်မာလူမျိုးတို့ထုံးစံရှိရာ ကျင်းပညေ့ဖြစ်သော မင်္ဂလာအ ခန်းအနားများ။
- (ခ) တိုင်းပြည်အုပ်ချုပ်ရေး။
- (ဂ) လက်မှုပညာ။
- 5. Translate into Burmese:

One of the most important lessons that experience teaches is that on the whole, success in life depends more on character than on either intellect or fortune. Many brilliant exceptions, no doubt tend to obscure the rule, and some of the qualities of character that succeed the best may be united with grave vices or defects, but on the whole, the law is one that cannot be questioned, and it becomes more and more apparent as civilisation advances. Temperance, industry integrity, frugality, self-reliance and self-restraint are the means by which the great masses of men rise from penury to comfort, and it is the nations in which these qualities are most diffused that in the long run are the most prosperous. The moral basis of character was the true foundation of the greatness of aucient Rome, and when that foundation was sapped, the period of her decadence began.

SINHALESE.

Paper-Setter-Rev. SAUGATA SUGATA KANTI.

Examiner-Rev. P. SEELANANDA.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1 (a) Paraphrase the following verses:-

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ඇතත් නැතත් පරලොව සුදුනෙනි මහ ත හළොත් සෙහෙකි පව්කම් නො තබාමැසි ත නැතොත් එපරලොව ඉක්වන අවැඩ නැ ත අතොත නැතැයි පව්කළ හට වෙයි විප ත.

කුරිරු ගෞර සපුන්ගේ දළ'ගෙහි විස ග මදුරු මැසි කැලන්ගේ තුඩගෙහි විස ග රුදුරු නුහු සුවන්ගේ වලගෙහි විස ය නපුරු දුදනුන්ගේ සියලගෙහිමා විස ය

(b) Who is the author of Subhāsita?

(c) Paraphrase this and write short notes on the underlined words:—

තුන් ලොනමා නතුකල <u>රච</u>ුඵ සොහොවු රු තුන් කල් බලා <u>රම්දු</u> ව වූ ඉටු මිත රු තුන් වේ ඇදුරු පුලනිසි කුලැම්ණිමිතු රු තුන් විටෙකා මා වද එසුරිදුපා නඹු රු

2. Translate the following sentences into English:-

(a) එකල්ෆි රජ "ඉතා මැනැවැ" සි ගිවිසගෙන ගොවිකම් කවැටිසනව බිජුබක් හුදලු කුති සීවැල් දින. වෙණෙසුම කවටියනව බඩුමිල දින. තමා සැම්වැටිය වියනව ඔවුන් ඔවුන් තුබූ පරිද්දෙන් නිමද දිවෙල් නනතුරු ගම්නියම් දින.

- (b) එ මිනිස්හු තමතමන්ගේ කමිහි යෙදුනාතු රුජුගේ රව නොපැළුදතු. රජහට ධනධානායෝ රැස් වූහ. මිනීස්සු සොරුන් නැනිවන බැවින් හය නැනිව සතුටුට දරුවන් ළමැඩියෙහි නටවමින් දෙර ානා පියාලා නිසැකව වෙසෙනි.
- 3. Who was Kutadanta, and how did he become the disciple of the Buddha?

4. Translate the following into Smalese:-

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- (a) Yasodharā did not come out to greet the Lord. She remained in her chamber, for she said, 'If he still loves me he will come to me.' Throughout the seven years that the Lord had been away, his faithful wife had mourned for him. When she heard he ate mean food, she did the same. She dressed in the simplest robes, she were no ornaments, and shaved her head after the manner of the priest.
- (b) At that time the whole world was filled with happiness. The clouds in the sky passed away, the sunbeams became very bright, beautiful music sounded in the air.
- 5. Write an essay in Sinhelese on any one of the following subjects:—
 - (a) මහාතමා ගාණඩ. (b) Colombo life.
 - (c) Cultivation and its weefulness. (d) සමකි.
 - 6. Write a few lines on Ummagga Jataka.

PORTUGUESE

Paper-Setter and Examiner-DR. P. D. BRAGANCA CUNHA.

Candidates are required to give their answers in their own works as far as practicable.

The figures in the margin indicate full marks.

1. Give in Portuguese the meaning of the following verses:

E a sciencia erguendo ao espaco Os claros olhos protundos. C'oa exactiao. do compasso Mede as orbitas dos mundos.

Rasga com milhoes de rados. Fura com milhoes de sonosa Os campos verdes pastados Pelos rebanhos das onosa.

Prevê a hora, o seguino Em que o temporal frenctico Ha de tombar sobre o mundo Com um ataque epitentico.

Interroga a luz e a treva Os vermes e os Prometnena Desde Locusta até mva Desde o infusorio até Dous.

- 2. Give your own idea about Her ulano's Eurico.
- 3. Write a short essay on 'The Romantic School in Portuguese 40 Literature.'

ar.

4. Write sentences showing the difference between and at que and after de antes que and antes ae, som que and som

TAMIL

Paper-Setters—

RAO BAHADUR L. K. ANANTHAKRISHNA
AIYER, B.A., L.T.

MAHAMAHOPADHYAY VEDANTAVISARAD
ANANTAKRISHNA SASTRI.

Examiner—Mahamahopadhyay Vedantavisarad
Anantakrishna Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. (α) அடியிற் கண்ட சொற்களின் பொருளேக் குறிக்குக. 20
- (i) கடுவுகிலேகைம. (ii) ஒழுக்கு முடைமை. (iii) அழுக் காருமை. (iv) வைஃகாமை. (v) பயனிலச் சொல்லாமை. (vi) புறங்கூருமை. (vii) பிறனில் விழியாமை.
- (b) இவற்றுள் அழுக்காருமைக்குப்பின் வைஃகாமையையும் ஒழுக்கடைமைக்குப்பின் பிறனில் விழியாமையையும் வைக்கக் கார ணம் யாது?
- 2. **பதவுரை** தெளிவுரைகளுடன் அடியிற் கணட குறளகளின் 20 கருத்துரையை விளக்குக:—
 - (a) ஒழுக்கத்தி னெய்துவர் மேன்மை யிழுக்கத்தி கெய்துவ செய்தாப் பழி.
 - (b) வசையிலா வண்பயன் கு**ன்ற** மிசையிலா யாககை **பொறத்த கி**லம்.
- 3. அப்பரின் திருகாமங்களேயும் அவற்றின் காரணங்களேயும் 20 விளக்கி ஸம்பகதமூர்த்திறைனக்கொள்கையை எதிர்த்த வரவாற்றைச் சுருக்கியேழுதுக.
- 4. அடியிற் கண்ட நீதிகளினென்றைத் தழுவி கீண்ட ஒர் வியா 15 ஸமெழுதுக்
 - (a) தேச ஊழியமே சிறத்த ஊழியம
 - (b) என**கடன** பணிசெயது கிடைப்பகே.
- 5. Translate into Tamil the following passage:—
 Robert Bruce, King of Scotland, was once in a very dejected mood.
 He had often tried to achieve the object on which he had set his heart, but without any success. Just as he was thinking of giving

up the attempt, he noticed a spider dropping down with its thread from the ceiling of the room. The king anxiously waited to see what the spider would do. The ceiling was far away and he wondered how it could ever manage to get there. The spider tried to reach the ceiling by going up the thread, but it failed and fell back. Another attempt was made and again it failed. In all it made nine such attempts without any success. The king now thought that it would give up making any further trial, when, to his great surprise, it once more climbed up, and at last succeeded in reaching the roof.

MALAYALAM

Paper-Setter and Examiner—Mr. C. E. Abraham, M.A., B.D. Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. വിജയന്റെ സ്ഥഭാവ വിശേഷങ്ങൾ എന്തെ 15

ലാം?

അപ്ലെങ്കിൽ

രക്കാഗ്വത്സവത്തെ പണ്ണിക്കു.

- 2. 'മാളവികാഗ്നിമിത്ര'ത്തിൽ നിന്ന് താഴെപ്പറയുന്ന **15** വിഷയങ്ങളെക്കുറിച്ച് യന്തു പഠിക്കാം?
 - (a) രാജധമ്മം.
 - (b) ഭായ്യാധമ്മം.
 - (c) ജീപിതത്തിൽ പിനോകക്കുളുടെ സ്ഥാനം.

അല്ലെങ്കിൽ

താഴെക്കാണുന്ന ആരെങ്കിലും ഒത്ളുടെ സ്ഥഭാവം നിരുപണം ചെയ്യു:—

- (a) മാളവിക.
- (b) ലീല.
- (c) ദേവമണി.

3. Give a free translation of the following passage into Malayalam: 15 Self-control is only courage under another form. most be regarded as the primary essence of character. It is in virtue this quality that Shakespeare defines man as a being 'looking sfore and after.' It forms the chief distinction between man and he mere animal; and indeed, there can be no true manhood without In the Bible praise is given, not to the strong man who 'taketh city,' but to the stronger man who 'ruleth his own spirit.' This ronger man is he who, by discipline, exercises a constant control for his thoughts, his speech, and his acts.

4. Write an essay in Malayalam on one of the following sub-40 cts :--

(a) Pleasures of reading.

(b) Agricultural improvements most needed in India.
(c) A place of pilgrimage in Malabar.
(d) Marriage customs of Nairs, Nambudiris, or Syrian hristians of Malabar.

(e) An ideal village or town.

Either, Discuss the question as to who the real heroine of 15 'alavikagnimitram is.

Or, Write what you know of any two of the following:-

(a) കളമനു. (b) ഗുണസുന്ദരി, (c) ടാവ്വൽ,

(d) കല്പകവനം, (e) ഔഷധയോഗിനി

TELUGU

**Examiner-Mr. R. C. Rau, M.A. D.Litt. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

- 1. నరగారాయణులయొక్ట కృత్తాంతము విఫులము గా బ్రాయుడు. 10
- 2. "నీతి" యగసేమీ. మహాభారతముయొక్క నీతులుదాహరిం 20 చుచు యొకవ్యానము త్రాయుడు.
- మార్పు చేయగలరా విశదము గా బ్రాయుడు.
 - 4. ఈ దిగువ బ్రాఫిక పద్యమునకు **రౌర్పర్యము** బ్రాయుడు:.... సంతతమైన నర్వాసుఖ నంపదగల్లియు చానికిందగకా నంతత్లేమి జోనీయడి నర్వము హేయమూ దలంచి ని. ్నుంకుడ్పై ధృత్రిం దళము సౌయగ థచ్చితొబుత్త్ర)జన్మైతా ళంతనయోను మీదయ గృతార్థత లుందుడు నన్నుసీశ్వరా

5. Translate the following passage into idiomatic Telugu:-

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In social matters the wife has a better voice, and social success is chiefly due to her. It is she who makes or mars a social function. The husband had at one time to do all the inviting, but now-a-days he has practically become a back number in this respect. It is the woman who gets up all socials and parties, and who extends her invitation to high and low. It is impossible that a social function should become a success if the wife does not like or sulks about it. But the function may go on merrily as ever if the unchivalrous husband finds no time or has no patience with his wife's frivolities or whims and fancies. A clever and pretty woman is a great asset to her husband in his social or material advancement. She can get people in high places to her parties, and when she goes to other people's parties she can make friends with people of wealth and power who may be of some use to her husband. Apart from material gain a wife who is admired by the high and mighty is a very desirable person, and is a pleasure in herself.

- 6. Write a short essay in Telugu on 'Society in the East,' making use of the following headings as hints for your essay-writing:—
 - (a) Festivals.
 - (b) Religious and social events.
 - (c) Economic relations.
 - (d) Education and work.
 - (e) Women and their place in society.
 - (f) Social service.

GUJARATHI

Paper-Setter-Prof. I. J. S. TARAPOREWALA, B.A., Ph.D.

Examiner-Pandit Hargorind Das Seth.

Candidates are required to give their answers in their win words as far as practicable.

The figures in the margin indicate full marks.

(જવાએા ગુજરાતીમાં લખવા.)

- 1. નીચે આપેલા વિષયા પૈકી <u>એક</u> પર એક નિબધ લખા:
 - (ક) પિતૃ ભક્તિ.
 - (ખ) ઉદ્યાગ યીજ લક્ષ્મી મળે છે.
 - (મ) લવ્યા પણ ગણ્યા નહિ.
- 2. નીચલાના ગુજરાતી અનુવાદ કરા:

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(a) A descent of three miles and a climb of 5,000 feet in two miles brought us to the village of Rhenock. Here a welcome scene met the eye. Preparations for the coolies' tea were going ferward on an ample scale, and our party were not disappointed in their expectation that similar facilities would be offered for our own refreshments.

The cook respectfully conducted us upstairs to the verandah of the Post-Office, where the Post-Master's best table and finest chairs were put at our disposal. His assistant was dispatched for milk, and in a short time we were entertained to a delicious meal of tea and biscuits and butter and fruit.

- (b) Contentment and cheerfulness are two twins. We should always be satisfied with our lot. Let us look to our poor brethren who are homeless and sleep on foot-paths, when we become discontented to see some of our friends whirling by in motors and living in palaces. A poor man was very discontented, and cursed his fate because he had no money to buy a new pair of shoes every year. One day he saw in a mosque a rich man with both his legs cut off. The poor man raised his eyes towards the sky and thanked Allah for having given him feet to walk with.
- 3. "કરણ ઘેલા પર જે જે આદૂતા વરસા તે તેનાંજ કર્મોનાં કળરૂપે 15 હતા." આનુ સમર્થન અથવા ખંડન કરાે.
 - 4. નર્મદા શંકરનું કાઈ એક કાત્ર્ય લઈ તેના સાર આપા. 10
 - 5. "હલદીવાટનું યુદ્ધ" એ કાત્યની ખુબીઓનું કાંઈક વિવેચન કરાે. 15
 - 6. નીચલાં પર ટુંક વિવેચન કરા:
 - (ક) અન્યતું તાે એક વાંકું આપનાં અઢાર છે.
 - (ખ) જેપાયતું તે મારતું શું એ નથી ક્રમ કુદરતી?
 - (મ) સગાંદીઠાં મેં શાહ આલમનાં બીખમાંગતાં શેરીએ.
 - (ધ) તે રંગ થકી પણ અધિક સરસ રંગ થાશે સત્વરે, માત.
 - (ક) પળ પળ અમ ઉર નિધિએશી હા ઉછળે ઊર્મિ અશેષ?
 - 7. નીચલા દૂકરાના સાર સંક્ષેપમાં લખા:

નરસિંહ મહેતાએ કાઈ ધર્મ ગુરૂના પંચ પાઠ્યા નથી કે પાતાના પંચ ચાલાવ્યા નથી પણ માત્ર શ્રી કૃષ્ણ ને નામે ઈશ્વરની લીલા ગાઈ છે. નરસિંહના કાવ્યામાં કૃષ્ણના અવતારનું મહત્ત્વ સ્વીકારે છે, પણ તેમની કવિતાના મર્મ સમજીએ તાે એમના દૃદયમાંના એથી પણ કાંઈ માેટીજ વાતા રતી રહી હતી. જેને નરસૈપા કૃષ્ણને નામે ભજે છે તે ખરૂં જોતાં નિશાકાર અને નિરંજન એવા એક ઈશ્વરજ છે. એજ અખિલ પ્રહ્માંડમાં એક પુરૂષ છે, અને ખાષ્ટ્રીની સૃષ્ટિ એનીજ સૃષ્ટિ છે. સર્વત્રાપી ઈશ્વર એ ગૃષ્ટિમાં સૌમાં ત્યાપી રહ્યા છે. એજ એમનાં સઘળાં પહેાની મતલળ છે.

KANARESE.

Paper-Setter and Examiner—MR. P. APPAJI RAO, B.Sc.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate any two of the following passages into Kanarese:

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- (a) The celebrated Chandni Chauk, the main thoroughfare of Delhi, is one of the most striking and picturesque streets in all India. It is nearly a mile long and seventy-four feet broad. Down the middle runs the old aqueduct now used as a footpath, shaded by a double avenue of nim and pipal trees. It is lined on both sides with the shops and handsome dwelling houses of merchants, whose touts (Dalāls) are the scourge of Delhi, swooping down upon every stranger like swarms of flies, pestering him to come and see their weres, cramming cards and circulars into his unwilling hands, screaming in the same breath the praises of their own shops and the most terrible slanders of their opponents. These pests wake you in the morning, hang about you at breakfast, swarm round the hotel doors and verandahs, ride on the steps of your carriage, take short cuts and come upon you unawares when you fondly hope you have got ind of them at last, and finally assemble at the Railway Station to curse you when you leave.
- you when you leave.

 (b) A certain person used every day to buy six loaves of bread. One day one of his friends asked him, saying, 'What dot thou do with the six loaves every day'? That person replied to him thus: 'I keep a loaf of bread for myself, and I throw away a loaf, and I give back two loaves, and the other two loaves I lend.' His friend said: 'I don't understand at all what thou hast said; explain more clearly.' That person said in reply: 'the loaf which I keep for myself, I eat and that which I throw away I give to my mother-in-law; and those two loaves, which I give back, I give to my father and mother in exchange for those which they gave to me in my childhood; and those two loaves which I lend, I give to my two sons in order that they may give me a return in my old age.'
- (c) The methods of the workers are still more or less primitive; the average cooly prefers to fill his tub in the easiest and quickest way that suggests itself to him, quite irrespective of whether the results of his want of method may be fatal to himself or others. One of the most frequent causes of fatal accidents is the practice of what is called 'robbing pillars,' the miner surreptitiously hacking at the pillar and filling a few baskets on his way to his appointed place, where the same amount of effort will result in a very much smaller outturn in coal. Apart from this cause of accident and accidents due to other forms of sheer carelessness on the part of the labourers above and below ground, accidents are few, though the death-rate figures for recent years show that there is a tendency to an increase in this respect.
- 2. Write an essay on any one of the following subjects in Kanarese only:—
 - (a) A little learning is a dang'rous thing. Drink deep or taste not the Pierian spring.
- (b) Rāmāyaṇa, Mahābhārata, and other Puranic stores enable one to foretell the incidents that are likely to occur in one's life-history when one is placed under difficulties or under favourable circumstances.

- (c) Talkies.
- (d) Raghuvamsa.
- 3. Describe Hidimbe's destruction by Bhimasena.

 4. Babhruvahana's magnanimity and self-sacrifice is soulstirring. Explain this.
- 5. Write short sentences illustrating the use of the following 10 words and phrases:—
 - (a) ತಿರುಳು.

- (b) ಉಪಸಂಹಾರ.
- (c) ಉಪಷ್ಟಂಭಕ ವಾಕ್ಯಗಳು.
- (ಗ) ನುತ ಶಬ್ದಾಲಂಕಾರದೊಳು.
- (e) ಹೃದಯಾರವಿಂದ.
- (f) ತಿಮ ತಿಮಿಂಗಿಲ,

MODERN TIBETAN

Paper-Setter-Mr. Satkari Mukherjee.

Examiner-Mr. KARMA SAMDON PAUL.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate the following passage into modern Tibetan :-

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But King Suddhodana did not rejoice in Kāladevala's predic-On the contrary, he tried by all means in his power to prevent its fulfilment, for he desired that Prince Siddhartha should one day become a universal monarch. The Brahmans had told him that the sight of human suffering and earthly impermanence would induce the prince to abandon the world. Therefore, the king kept away from the prince everything that could give him knowledge of human misery and death. He surrounded him with enjoyments and kingly splendour of every kind, so as to chain him firmly to a worldly life. The most distinguished teachers had to instruct him in the arts and sciences, and in all kingly accomplishments befitting a king's son. When Prince Siddhartha reached manhood, his father had built for him three palaces, one for each of the three Indian seasons-the hot, the cold, and the rainy season. All were furnished with the greatest luxury; all around them spread vast gardens and groves, with clear ponds full of lotus flowers, and grottoes, and beds of the most beautiful flowers. In these gardens and groves the Prince passed his youth, but he was never allowed to leave them; and all the poor, the sick, and the old, were prohibited from entering. Sons of the noblest families in the land were his companions. In his sixteenth year his father married him to the Princes Yasodhara, and he was surrounded besides by a bevy of beautiful girls, skilled in dancing, singing, and music, according to the then custom of Indian Princes.

It became possible for the prince, however, in the midst of all this splendour and delight, to think of flight from the world.

2. Give a brief sketch of the life of Prince Drimekunden and the moral lessons you gather from his character.

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3. Explain the underlying idea of the following extracts in your own language, and show the context in which they occur:—

बूर-भूर-जवी-तार्बूट-वर-ठच्चें-रंबूक्ष-तथ ॥ वह्न्बे-हुक्-वर्ट-क्ष-तः, रूज-ठच्चे-वर्ट-क्ष ॥ कूट-विश्वभः बूर-ज-रवट-वर्ट-क्षेण-तुः, लटः॥ श्वर-क्षेत्र-वश्वटक्ष-तदः बूर-ज-श्वट-च्-भुर।

- 4. Correct the errors in the following:—

 েলুমার্ বিস্তুব্র্মেশ্বরিশ্বর্ম ব্যা ব্রিক্রিব্র্মেম শ্রী সূমার্মিশ্রে

 রিক্রিব্র্মেম শ্রীক্রিব্র্মেশ্রিক্রিব্র্মেম শ্রীক্রিক্রিক্রিক্রিক্রিক্রিক্রেক্রিক্রিক্রিক্রিক্রিক্রিকর বিশ্বর
 - 5. Write an essay on any one of the following subjects:-

(a) Knowledge is power.

(b) Punctuality.

(c) The principal trades of Tibet and its neighbouring districts.

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16

ALTERNATIVE PAPER IN ENGLISH

Paper-Setters { MR. W. C. Wordsworth, M.A. HIRANKUMAR BANERJEE, M.A.

Examiner—Rev. Father J. Weaver, S.J.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Either, Compare Browning's picture of the lover of art in Fra Lippo Lippi with Tennyson's in The Paluce of Art, and state what you conceive to be the aim and purpose of each poem.
- Or, State in what respects Tennyson's poems dealing with love present a contrast to those of Browning? Illustrate by references to their poems how the ideals of love of the two poets are different.
- 2. Relate either the story of Elaine's death as Tennyson tells it or the story told in Browning's Statue and the Bust.
 - Explain any two of the following:—
 - (a) Self-reverence, self-knowledge. self-control, These three alone lead life to sovereigr power. Yet not for power (power of herself Would come uncall'd for), but to live by law, Acting the law we live by without fear; And, because right is right, to follow right Were wisdom in the scorn of consequence.

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- (b) But pamper not a hasty time, Nor feed with crude imaginings The herd, wild hearts and feeble wings That every sophister can lime. Deliver not the tasks of night To weakness, neither hide the ray From those, not blind, who wait for day, Though sitting girt, with doubtful light.
- (c) Well, less is more Lucrezin: I am indeed
 There burns a truer light of God in them.
 In their vexed beating stuffed and stopped up brain,
 Heart, or whate'er else, than goes on to prompt
 This low-pulled 'orthright reaftsman's hand of mine.
- (d) So, let him wait God's instant men call years;
 Meantime hold hard by truth and his great soul
 Do out the duty! Through such souls alone
 God stooping shows sufficient of His light
 For us i' the dark to rise by.
- 4. Either, Name two of the most famous among the friends and acquaintances of Goldsmith and state briefly what you know of them and of their relations with the poet.
- Or, Write short notes on any four of the following:—The Bee, Beau Nash, James Boswell, The Deserted Village, Tony Lumpkin, Retaliation.
- 5. Relate the story of the publication of The Vicar of Wakefield. What does Black tell us about the reception given to the novel on its appearance?
 - 6. Explain any three of the following passages:—
- (a) When we are invited to contemplate the 'evil destinies of men of letters,' we ought to be hore on take as well as the ebb-tides.
- (b) Johnson, Goldsmith, and all the rest of them are only ghosts until the pertinacious young laird of Auchinleck comes on the scene to give them colour, and life, and form.
- (c) Gold mith, whether in writing a novel or a play, was more anxious to represent human nature than to prune a plot, and paid but little respect to the unities, if only he could arouse our interest.
- (d) When Johnson heard that Foote meant to 'take him off,' he turned to Davies and asked him what was the common price of an oak stick; but an oak stick in Johnson's hands, and an oak stick in Goldsmith's hands, were two different things.

SANSKRIT

FIRST PAPER

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Mahamahopadhyay Pandit Sitaram Sastri.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

r. Translate into English two verses from Group A, one from 5 x 5 Group B, and two from Group C:-

GROUP A

स्वारप्तानि दिमनराचि क्रता दिनानी निलयाय नन्तुन्। (a) प्रकारी प्रज्ञवरागतासा प्रभा पतर्पक सर्वेच धेन: ॥

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- (b) म पाटलायां गवि तस्थिवांसं धनुर्धेरः क्रेसिर् दृद्शे। अधिन्यकायामिव धातुमय्यां लोधद्रमं सानुमतः प्रफूक्षम् ॥
- (c) तस्यासमिवा चुधितस्य त्यारे प्रदिष्टकासा परमेश्वरेण। उपस्थिता शोणितपारणा से सुरविषयान्द्रमसी सुधेव॥

GROUP B

- (a) यानापृथित्योदिसम्मनं हिन्नाप्तं त्वयेकीन दिशय सर्वाः । हृहाह्न तं क्पसुर्यं तवेदं लीकवयं प्रव्यथितं सहात्मन् ॥
- (b) कासाच ते न नमेरकाहातान् गरायसे ब्रह्मणोऽप्यादिकर्ते । भनत देवेश काश्वितास त्वमत्तरं सदसक्तवरं यत्॥
- (c) तस्तात् प्रयास प्रशिषाय कार्य प्रसादये त्वामहमीश्रमीखाम्। पितेव पुत्र य मस्तेव सस्यु: प्रिय: प्रियायाईसि देव सोदम्॥

GROUP C

- (a) दत्तावधानं मधुले। इगीती प्रशान्तचेष्टं इरिणं जिघांसु:। भाकण्यत्रतः कइंसनादान् लच्चे समाधि न दधे सगावित ॥
- (b) न तज्जलं यम्न सुचारपञ्चलं न पञ्चलं तदादल् । नषट्ण्यम् । न षट्पदीऽसी न जगुम्र यः ऋलं न गुम्निः तम्र जहार यन्त्रमः ॥
- (c) तं विश्वदर्भे क्रतचात्रयता यानं वन रातिचरा ड्रीके। जिचांस्वेटं ध्तभासरास्त्रका ताङकाच्यां निजवान राम: ॥
- (d) निर्माणदचस्य समीहिनेषु सीमेव पद्मासनकीशलस्य। कथ्व स्करद्रवगभसिभियो स्थिताव इस्येव पुर्व मचीनः॥
- 2. (a) Give in simple Sanskrit prose the full meaning either of (c) in Group A, or of (c) in Group B, or of (b) in Group C, or of (d) in Group C.
- (b) Either, Note in English or Sanskrit the main points in the conversation either between Dilipa and the Lion in Raghu, Canto II, or between Visyamitra and Dasaratha in Bhatti, Canto I.
- Or, Quote from memory the verses in Canto Π , of Bhatti about the charming manners of the milkwomen.
- Or, Write in Sanskrit the substance of the encouraging words addressed by the Lord to Arjuna in Gītā, Canto XI.
- 3. (a) Either, Show the grammatical connexion of তুরী in Group A, verse (c), accounting for the খনখী
- Or, Explain the grammatical construction in विश्वदर्भ कृतचातश्रवा in Group C, verse (c).
- (b) Account for the স্বায়ানীবৃদ্ধ either in মুস্তানী in Group A, verse (a), or in ক্ষ্মী in Group C, verse (a) or in ক্ষমীৰ in Group B, verse (b).
- (c) Account for the case-endings in লিল্লয়ায় or ঘ্ৰদ্বিশ্ব in Group B, in ইংলাল or লগালিখি: in Group C.

(d) Comment grammatically on the form either নাৰায়িখনী: or	3
सगावित.	
(e) Derive तिस्थवांसम् or प्रपुक्षम् , and चान्द्रमसी or गरीयसी, and	
सीडम् or राविचरी.	
·	
4. Frame sentences of your own to illustrate the uses of—	8
(a) वि+ जिल उप + यम in लुङ्ल लिट्;	
(b) श्वन् or राजन् in the singular in सप्तमी to indicate disregard;	3
(c) सन्वे with a word in चतुर्थी or जा with a word in चष्ठी;	3
(d) a तिञ्चत form to mean तेन तुल्यम् or तस्य कर्म ;	3
(e) the resulting compound from सु श्रीभनी) राजा यिधान् देशे स: or	3
कु (कुतिस्तम् चन्नम्,	
or many the me me control of the control of the control of the	× 9 = 10-
ं a) गुक्र यभागत इसं प्रचम ।	
(b) स्तानां स्वधा सुदकदानं कार्यं $oldsymbol{\mathfrak{q}}$ ।	
(c) भक्ति सस एका सेषा, एका च भश्री।	
$(d$ ं ख † नका खलु सा नारी।	
e) सन्ति ब्रह्मणयतुर्भेखानि ।	
f सञ्जलाय त्वरस्व।	
g) पित्रे शपति पुत्र:।	
(h) विरमम्ब पापात ।	
i) यशोवानधं कवि:।	
(j) सच्चामनं सेवत।	
6. Translate into Sanskrit:— (a) Accompanied by his brother and wife the prince entered the	18

- (a) Accompanied by his brother and wife, the prince entered the great forest. It was fearful all around. Ferocious animals were roaming there at large. Man-eating monsters were wandering hither and thither. They were no respecters of persons. They would devour even ascetics who crossed their path. No wonder the forest was looked at with alarm and dismay by everybody who came near it. It was practically the land of the monsters.
- (b) Always make good use of your time; never entertain the thought in your mind that you are particularly unlucky; fortune always favours the brave; those who have no manliness in them complain of bad luck; with patience and perseverance you will be able to surmount all difficulties in life.

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any three of the following extracts:— 5 × 8
 - (a) नीवाइसेतद यश्चसे ददान, न चार्यहेतोर्न च भीगत्या।
 पापैरनासिवित एव मार्ग, इत्येवसेतत् सकलं करामि॥
- (b) तं लेखकुणकं क्रपणं स्रोतसानूह मानमभिवीच्य राजर्षिभेरत हाटाय छत-सातरमित्यायमपदमन्यत्। तस्य इवा एचकुणक एतस्मिन् क्रानिजाभिमानस्याहरह-सात्यायणानस्थानेनात्मांनयमाः सर्वे एवोदवनन ।
- (c) एवं गच्छित काले कटाचिद्रः जा चौण्भूयिष्ठायां रजन्यां खप्ने विलामवत्याः भावने सकलकलापरिपूर्णमण्डलं ग्राधिनं प्रविज्ञन्तमद्राचीत्। प्रबुडयोत्याय तस्रक्षेत्रं स्वी समाह्रय ग्राकनामाय तस्रप्रकृष्टयात्।
- (ते राजनन्दन, केचिदस्यामटत्यां विद्याभ्यासमपद्याय दरीक्रत्य निजकुलाचारं पुर्श्विन्दप्रागमा ब्राक्षणवृत्रा निवमिन। तेषु कस्यचित् प्रचा मातङ्गनामाऽष्टं सद्य किरातबलीन जनपटं प्रविश्य धनिन भानोग्याटव्यामपद्यस्थितं धनं वीतद्यी व्यचरम्।
- (e) निर्ण ग्रचि: स्यात्। विधा च शीचम् वाक्शीचम् सन.शीचम् कायशी ख। प्रथम शास्त्र नन्मनी। तातीयीकं त सनखक्ति पादी, सतास्त्र नं सुखस् सिविधनमावं वपु:, सहाइंसन्स्वणं च वासः, सकुसुमं शिर इति। ग्रचि शीलनं हि सरखत्याः संवननसासनित।
- 2. Either, Give in your own words, in English or in Sanskrit, as briefly as possible, the story of Bharata, and point out the moral of the story.

Or, Explain fully in English or Sanskrit, the superiority of Sibi over Ashtaka, Pratardana, Vasumanas, and even Narada.

- 8. Explain the grammatical forms in any three of the following, 3 × 3 with necessary comments:—
 - (a) क्तमात्रम in Question 1 (b). (Why no क ?)
- (b) আত্তহত in Question 1 (b). (What বিমালি and why? Why doubled?)
- (c) समाञ्च , . . यकनासाय . . . चक्रवयत् in Question 1 (c). (Why चतुर्वी and not तृतीया ?)
 - (d) बाह्यजन्म in Question 1 (d). (How derived and in what sense ?)
 - (e) तातीयीक्स in Question 1 (e). (How derived and in what sense ?)
- 4. Construct short sentences to illustrate any five of the 5 x \$ following:-
 - (a) 有要 in connexion with 和零.
- (b) विश्व in the sense of all, in the plural in वही, or प्रवसा in the m Zouline.

- (c) fina in the plural number.
- (d) Atmanepada of भी under कत्ते स्य चाश्रीरे कर्माण.
- (e) wasta in the sense of with a word denoting time.
- (f) । ভি+ ল্লী with its locative (অধিকৰ্যা:
- (g) The suffix भनीय in भिक्षत्वाचा or सम्प्रदानवाचा.
- (h) वि + लोक as compounded in समादार.
- (i) The resulting तिश्वत form from क्वायेख रत्तम.
- (j) परस्य in the feminine form in the appropriate sense.
- 5. Translate into English any three of the following:-

10 x \$

- (a) एकसीर: प्राइ सुखे सुर्वती नगररचका: परिश्वमन्ति। मर्व्वोऽपि जागरिष्किति तेषां भेरोपटहादोनां ाननादेन तस्मादाष्ट्रतं विभन्य ख्रस्तभागागतं घनमादाय शौन्नमेव गन्तन्यम। अन्य: प्राइ सुखे लमनेन कीटिइयपरिमित्तन सुवर्ष- जातिन किं करिष्यसि ? प्रथम आह विदुषे ब्राह्मणाय प्रदास्ये।
- (b) कदाचिद्दे वसभायां पुरस्दरी नारदं पृक्कति—सुने, भूलोक इदानीं का नाम वार्ता? नारदः पाह—सुरनाय, न किमप्यायर्थम्। किंतु धारानगरवासी स्वीभाजभूपालो रोगपोडिता नितरामखस्यो वर्तते। स तस्य रोगः कैनापि न निवारितः। तदनेन भाजनृपालेन भिषग्वरा भाष खदिशादिकाशिताः।
- (c) ततः शरदागमे दिशो निर्मेलाः, नभी मेघावरणमृत्रम्, पत्थानः सर्वे पद्यक्षेना सभवन्। सीताया सन्वेषणायकालोऽयं सर्वेषा समुपयोगीति ज्ञाना सुग'वः सर्वेषु दिग्विभागेषु वानग्वलानि प्रेषयामास । रावणस्य राजधानी दिचि वर्षेत इति भद्यक्षेत्रं तीक्कविक है इनमले त्रव प्रयातमादिदेश ।
- (त) रामानुमया लङ्काराज्ये विभीषण एवाभिषिको बसूर। कपयो राखसाय कति दिनानि तावदुत्सवसया चासन्। अध रसुपतिरयाध्यागमनाय समृत्या की विभीषणाय स्वसभिप्रायं कथ्यामास । विभीषणोऽपि स्वपरित्रने: सह तच गन्तुमियेष। रासय तदनुमेने। तत: पुर्खे सङ्कर्ते सर्वे ते प्ररोमयोध्यो प्रतस्थिरे।
- (e) षण वायम: समित्य तानाइ—षडा ! किं महाजनसमागमीऽयं परम-मडोत्सवय ? ते पोनु:—भा नास्ति किषिड्ड झानां राजा तद्नुकस्यास्य विद्रञ्ज-राज्याभिषेको निद्रिपतिसिष्ठति समसपित्वभि:। तत् त्वमि स्वमतं देडि । षणासी काको विद्याह—षडो न युक्तांमदम् । मयूर्डसादिषु विद्यमानेषु द्विन्थस्य पेचक-स्थाभिषेक: क्रियते १
 - 6. (a) Translate into Sanskrit any two of the following:— 71×5
- (i) The night was dark; distant thunder roared; rain fell in torrents; every step was dangerous; but the traveller heeded nothing.

 (ii) The storm gathered in strength trees were uprooted on all sides; his path was blocked; no advance was possible; still he was undaunted.
- (iii) What was the secret of this first resolve? He was surely moved by a great force. Was it his superhuman physical strength? No, it was some divine power. Nothing else could have moved him in such circumstances.

- (b) Translate into Sanskrit any two of the following:-5 x 3 -10
- (i) Study is not to the linking of the student; true; but not to give sole attention to studies is to court ruin.
- (ii) If you are on the right path, God is with you in your struggle. You have nothing to fear with God to guide you.
 - (iii) Good nature and good sense must ever join, To err is human, to forgive divine.

PALI.

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Examiners— { Mr. Sadananda Bhaduri. Mukundabihari Mallik, M.A.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, Summarise the conversation between Buddha and Mara as given in the Padhana Sutta.

meant by the following Buddha Or, Explain fully what stanza :---

> Usabho-r-iva chetvā bandhanāni nāgo pūtilatam va dālavītvā naham puna upes-am gabhaseyyam atha ce patthavasi pavassa deva.

2. Either, Give a brief account of the lives of two of the following persons: (a) Malapajapati Gotami, (b) Mahakassapa, (c) Vijaya, (d) Buddhaghosa.

Or, Show that the whole teaching of Buddhism is given in the following stanza: --

> Dukkham dukkhas mup ád qu dukkhassa ca an In am, ariyañ ca atthangikani maggani enkkl úpa are gânerratp.

Translate into English any three of the following extracts, adding notes on the italicized words:

Kin te jațăhi dummedha, kin te ajinasățivă,

abbhantaram te gahanam, bāhiram parimajjasi (b) Manujassa pamattacārino tanhā vaddhati māluvā viya, so palavatī hurāburam phalam iecham va vanasmi vanaro. Yom esä sahati jammi tanha loke visattika

- (e) Yo koci samano capi brahmano ca bahussuto parappavādakusalo vālavedhī samāgato na sakkā patīvattetum Sineru va suppatitthito. Devo Māro vā Brahmā ca ye keci pathavitthitā na passanti anumait im kiñci dubi hasitam padam.
- (d) Parivattesi sabbā pi Sīhalaţţhakathā tadā sabbesau mūlabhāsāyā Māgadhāya ni uttiyā. Sattānam sabbabhāsānam sā aho-i hitāvahā, therivācariyā sable Pālim viya tam aggahum.
- Dittho hi me so Bhagavā, antimo 'yam samussayo vikkhīņo jātisamsāro, n' atthi dāni punabbhavo. Araddhaviriye pahitatte niccam dalhaparakkame samagge savake passa, esä Buddhana vandana.

4. Write explanatory notes on any four of the following:— (a) nib buto gini, (b) sabba samkharā anattā, (c) dhutavāda, (d)paṭsambhida, (e) upadhi, (f) navangam, and (g) namuci.

5. Either, State the rules for the formation of participles and in-

finitives in Pali.

Or, Name the classes into which verbs are divided in Pali

grammar, giving examples.

6. Expound the samasas in any four of the following:—(a) mahabodhisamīpamhi, (b) pitakattayam, (c) vijjāsippakalāvedi, (d) naddhapancāyodho, (e) pakkodano, and (f) attavetanabhato. 6

5

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7. Conjugate the root kar or that in the agrist, and the root no or

bhui in the optative.

- 8. Decline tham or tram, and atta or rinnu in all cases and numbers
- 9. Write grammatical notes on any four of the following: -(a)samāgatā, (b) al bahe, (c) santim (d) upaccagā, (e) anibbisam, and (f) patrā.

10. Translate into Pali any two of the following passages :-

(a) Virtue is the highest good. Men are mortal. Human life is short. Gold and silver cannot make men happy. Summer is warm but winter is cold. The love of glory and the fear of shame are often the cause of great valour.

(b) The poor woman was dying of hunger and cold. You are always right; I have been wrong. Have pity on my weakness. Many poor people live on bread and potatoes only. The king has granted

him pardon.

(c) He has worked much more for our good than for his own. Calcutta is a large city; its streets are dirty. I have a good friend. He often comes to my house. He is a handsome young man. He has a large and beautiful house.

SECOND PAPER.

Candidates are required to give their answers in their on n words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate any two of the following passages into English, fully commenting on the italicized words:
- (a) Bodhisatto p huithitvä savanapitthe pallamkena nisinno addasa ta itthiyo turivahbandani avattheritva nid!a antiyo ekacea paggharitakhejā lālākilinnagat ā ekaceā dante ki ā lantuo ekac ā kākacchant yo ekaccā vippalapantiyo ekuccā apagatavattliā pākutalihhiccha-sambādha.

8

- tthänä. 'o täsam tam vippakäram disvä bhiyyosomattäya kämesu viratto ahosi. Tassa alamkata-patiyattam Sakkabaavana-sadisam pi tam mahätalam vippaviddhanänäkunapabharitam ämakasusänam viya upatthäsi.
- (b) Atha kho Māro pāpimā kassakavaņņam abhinimuinitvā mahantain nangalam khandhe karitvā dīgham pācanavatthim gahetvā hat hat akeso sāņa ātīnivattho kaddamamakkhitehi pādehi yena Bhagavā ten upasamkami, upasamkamitvā Bhagavantam etad avoca: "api samaņa balivadde addasā" 'ti. "Kim pan pāpima te balivaddehiti." "Mam' eva samaņa cakkhum mama rūpā mama cakkhusamphassavinnāņāyatanam, kuhim me samaņa gant:ā mokahasi.
- (c) Atha kho Bhagavā āyasmantam Anandam āmantesi: "āyām' Ananda, yena Kusinārā ten'upasamkamus āmā'' 'ti, ''Evam bhante'' ti kho āysamā Anando Bhagavato pacassosi:

Cundassa bhattam bhuñ mva kammārassa 'ti me sutam, ābādham samphusi dhiro pabāļham māraņantikam. Bhuttassa ca sūkaramaddavena vyādhi ppahāļhā udapādi Satthuno, virceamāro Bi agavā avoca : ga ebām'aham Kusināram nagaran ti.

- 2. Either, Write explanatory notes on any five of the following:—sakyaputtiyā samanā, annatithiyā, Jetavana, pubbanimittāni, ariyasaccāni, kumārapanham, pariyatti-antaradhānam.
- ariyasaccani, kumarapanham, pariyatti-antaradhanam.

 Or, Comment on the ten precepts pointing out their importance in the disciplinary system of the Buddhists.
- 3. What is precisely meant when it is said that according to Buddhism either "rebirth is not transmigration," or "there is no Ego?"
 - 4. (a) Conjugate the root nahā in the optative.

 (b) Decline the bases of sā and rājan in the ablative and
- locative.

 (c) Derive—āruhya, photthabbā, bhuñjeyya.

 5. Expound the samāsas in any four of the following:—cakkhu-
- 5. Expound the samāsas in any four of the following:—cakkhu-samphassapaccayā, pākaţabibhaccha-sambūdhaţthūnā, susajjita-āpānga-mandalam, kaddamamakkhitehi. ucchinnamūlam, gandhatelappadīpa.
 - 6. Summarize the story of the "Great Retirement."

 7. Translate into English any two of the following passages:—
- (a) Ekam samayan Bhagavā Kosalesu viharati Sundarikāya nadiyā tīre. Tena kho pana samayena Sundarikabi āradvājo brāhmaņo Sundarikāva nadiyā tīre aggim juhati aggihuttam paricarati. Atha kho Sundarikābhāradvā o Irāhmaņo aggim juhitvā aggihuttam paricaritvā uṭṭhāyāsanā samantā catuddisā anuvilokesi: "ko nu kho imam havyasesam bhuñeyya'ti." Addasā kho Sundarikābhāradvājo brāhmaņo kamandalum gahetvā yena Bhagavā ten'upasamkami.
- (b) Tato rājā Asoko Gangāya tīre mahāthūpassa ādipūjam kattukāmo Gangāya dūre addhayojanamatte pātīdīpankaņam kārāpesi. Mahāthūpassa ca sīmantato dīpā uppa jalitā mahājano malāblikkhusamaho ca sannipatito mahāthūpavandanapūjāva Tato Māro vātavutthim samutthāpesi padīpe nibbāpetukāmo thūpapū āya antarāyah cakattukāmo. Tasmim khaņe thero Upagutto vātavutthim pariggahetvā dūre chaddesi.
- (c) Brāhmaņo Bhagavantam etad avoca: "aham kho samaņa kasāmi ca vapāmi ca, kasitvā ca vapitvā ca bhuñjāmi, tvam pi samaņa kasassu ca vapassu ca, kasitvā ca vapitvā ca bhuñjāssu" ti. "Aham pi kho brāhmaņa kasāmi ca vapāmi ca, kasitvā ca vapitvā ca bhuñjāmī" ti. "Na kho pana mayam passāma bhoto Gotamassa yugam vā naṅgalan; vā phālam vā pācanam vā balivadde vā."

ARABIC.

Paper-Setters—

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KHAN SAHIB MAULVI MUHAMMAD.

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FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following passages:--

Α.

25.

یا بنی اسرائیل قد انجیناکم من عدرکم ر وعدناکم جانب الطور الایمن ر نزلنا علیکم المن ر السلوی * کلوا من طیبات ما رزتناکم و لا تطغوا فیه فیعل علیکم غضبی * ر من یعلل علیه غضبی فقد هوی * وانی لغفار لمن تاب و امن ر عمل صالحاً ثم اهتدی * و ما اعجلك عن قومك یا موسی * قال هم ارلاء علی اثری * و عجلت الیك رب لترضی * قال فانا قد فتداك قومك من بعدك ر اضلم السامری * فرجع موسی الی قومه غصبان آسفا * قال یا قوم الم یعدکم ر بهم رود، عسنا *

В.

قال المدائيني خرج فتيان في صيد لهم فاثاروا ضبعا ـ فنفرت و مرت فاتبعوها فلجأت الى ببت رجل فخرج البهم بالسيف مسلولا فقالوا له يا عبد الله لم تمنعنا من صيدنا فقال استجارت بى فخلوا بينها و بينه فنظر البها فاذا هي مهزولة مضرورة فجعل يسقيها اللبن صبوحاً و مقيلا حتى سمنت و حسنت حالها فبينها هوذات يوم راقد الا عدت عليه فشقت بطنه و شرب دمه *

C.

- (b) What does [allude to ? Explain fully.
- 6 ــ من فاته ـ ليت شعرى are in ضمائر (c) What kind of من فاته ـ ليت شعرى أن are in ضمائر (d) و استعماله (an) كثر شرفه ـ و استعماله
- 3. Answer any two of the following questions:—

 (a) Illustrate by a story from your text that the Holy Prophet—peace be on him!—was a protector of orphans and the destitute.
- (b) Narrate the story of 'Abdu'llāh, son of 'Abbās, and the desert woman of the Banī Kalb.
 - (c) Write short notes on any two of the following:-

زمخشري - يعقوب لبث - ابو حنيفه - بزرجمهر

- 4. Vocalise fully extract B, Question 1.
- 5. Rewrite the following after necessary correction:—
 اعطیت ابوزید خمس دنانیر طیارتان یطیر علی الهواء انظر الی الیمن ذهب احدهما الی کلکتـة رسقط الاخری فی البحر انظر الی ابو موسی لابس قمیص سوداء یتبعه بنتأ له *
- 6. Answer any three of the following questions:--
 (a) Enumerate, and illustrate by examples, the action

 (عمل) مناربه ومانيان مقاربه ومانيان و
 - (b) What is , (Give its rules with examples.
 - . مرمي _{and} رويد , ميقات تعليل (c) Give the
- (d) What is the difference between and of? Illustrate by examples.
- 7. Reproduce the story of Hamid Laffaf in your own language, and draw a moral from it.

8. Translate into Arabic:-

I was just passing by the side of a river. I found a huge carcass floating on the water. Lo! There appeared a big fish and began to swallow it. It had almost swallowed the half of it, when a vulture came down and sat upon the other half of the carcass. Finding its seat gradually disappearing the vulture turned and discovered the fish. It began to strike the fish so severely with its sharp beak, that it vomited it out, and dived down into the water.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English either A or B:---

A.

قطلع صبع الشيب و القلب مظلم فما طائف منه من سنى العتق طائف فلاثون عاما قد ترلت كانها حلوم تقضت از بروق خواطف و جاء المشيب الهنذر المرء انه اذا رحلت عنه الشبيبة تالف فيا احمد الغوان قد ادبر الصبا فيل ارق الطرف الزمان الذي مضى و الكاه ذنب قد تقدم سالف فيد بالدموع الحمر حزنا و حسرة فيد بالدموع الحمر حزنا و حسرة فيد معلى ان قلبك اسف

ذهب الذيس عليهم وجدي و بقيت بعد فراقهم وحدي من كان بينك في التراب و بينه وشبران فهو بغاية البعد لو بعثرت للخلق اطباق الثرى للحدف لم يعرف العدف من العدف من العدف من كان لا يطأ التراب برجله يطا التراب بناعم الخد

عجبت لمفترن يخلف بعده

لوارثه ما كان يجمع من كسب حورا ماله ثم استهلوا لقبره

ببادي بكاء تعته ضعك القلب

2. Answer any three of the following:-

5×8

- (a) Give the صغه an باب of any fire of the following:- =18
 - -: of any five of the following اعراب of any five of the following ناعم ـ بادى ـ مفتون ـ حزنا ـ المرء ـ خواطف ـ عاما
- (c) Select any five of the following and state whether they are in the singular or the plural, and write with vowel-signs the opposite number of each of the five selected:—

غاية - طائف - مرلى - دمرع - خواطف - زمان - ذنب

(d) Write notes on fire of the following seven expressions, explaining their form or usage, or expressing the precise meaning of each word:—

الميسر و المسبب و المسهل و المساعد ، عصى عمدا و جهلا و غرة ، حاشا لجودك ، يمانى ، اشعار جارية مجرى المثل ، ليس بنافع ذا البخل مال ، اما والله ان الظلم لوم *

8. Write notes on :-

ابس الفارض - معارية بن الى سفيان - ابر العتاهية *

4. Translate into English either A or B:-

A.

ان الخنساء صحابیة ـ قدمت علی الرسول صلعم مع قرمها من بنی سلیم و اسلمت معهم الله انها لم تُدع ما کانت علیه من بکائها علی ابهها و اخریها و بلغ رجدها علی صغر اشهها انها

مميت من البكاء - فلما كانت في حلافة عمر اقبل بها بنو عمها الى عمر فقالوا - يا اميرالمومنين هذه الغنساء لم تزل تبكى على ابيها و اخويها في الجاهلية حتى ذهبت و ادركت الاسلام وقد قرحت مأقيها كما ترى فلو فهيتها - فدخل عليها فاذا هي على ما رُصف له فقال - ما اقرح مأقى عينيك قالت بكائى على السادات من مُضر *

B.

هو شريم بن الحرث الكندى ـ استقضاء عمر على الكوفة ولم يزل بعد ذلك قاضيا خمسا و سبعين سنة لم يتعطل فيها الآ لاث سنين امتنع فيها من القضاء في فتنة ابن الزبهر فاستعفى شريم العجاج من القضاء فاعفاء فلم يقض بين الناس حتى مات ـ و كان مزاحا ـ تقدّم اليه رجلان في شيء فاقر أحدهما بما ادعى عليه الآخر و هو لا يعلم فقضى شريم فقال له اتقضى على بغير بينة ـ فقال قد شهد عندى ثقة ـ قال اتقضى على بغير بينة ـ فقال قد شهد عندى ثقة ـ قال من هو ـ قال ابن اخت خالتك ـ مات شريم سنة تسع و سبعين و هو ابن مائة و عشرين سنة *

5. Answer any three of the following:— 5×8

- (a) Give examples to illustrate the uses of المضارع المجزوم, =15 and explain what is meant by اللام لتقرية العامل.
- (b) Give examples of the various uses of the proposition بأبى أثت وأمى and explain the construction of
- (c) Render the following into Arabic, supplying the vowelsigns:—2 stars, 7 bottles, 21 boats, 84 women, 125 cows.
- (d) Explain and exemplify the term النانة . Account for the following constructions :--

بيت المقدس ، رُقتُ أن أستترَ

- (e) Enumerate and give examples of the various قرابع.
- 6. Translate into Arabic:-
- (s) A certain tyrannical king was very ambitious and prepared to attack a neighbouring kingdom. But the ruler of the latter

was wise; by his good deeds he had won the love of his subjects. So when the time of trouble came, they helped him with their possessions and their strength, and drove the foe beyond their borders.

(b) A truly great man is something wonderful. We people wake up in the morning, eat our food, go forth to our task, and return to sleep. Such matters occupy us all day long; if there is improvement in us or our work, it is slight. But one day a great teacher appears; at first we are unwilling to listen; later, however, his teachings make an impressions on us; many people accept his principles, and thus the world is raised to a higher level of living.

PERSIAN

Paper-Setters { Khan Bahadur Md. Musa, M.A. Maulvi Muhammad. Mr. A. F. M. Abdul Kader.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following:-

A.

نعمت بارخدایا زعده بیرون است شکرگذار شکر انعام تو هرگز نکنده شکرگذار اامید از در لطف تو کجا شاید رفت تاب قهر تو نداریم خدایا زنها و نعلهائیکه زما دیدی و نینسدیدی بغدارندی خود پرده بپرش ای ستار سعدیا راست روان گوی سعادت بردند راستی کن که بغزل نوسد کجرنتار

حیف از عمر گرانمایه که درلهر برفت هزار استغفار فت هزار استغفار در پنهان بتو گویم که خداوند مغی درد پنهان بتو گویم که خداوند مغی یا نگویم که توخود مطلعی بر اسرار

B.

اختر برج شرف كائنات گسوهو دوج صدف ممكنسات جنبش ارل ز معیط قدم سلسله جنبان رجرد از عدم کلک عنایت چو رقم ساز کرد از همه پیش این رقم آغاز کرد صدر نشین ارست درین پیشگاه كنت نبيا بود أنرا كواه بود ز رخ شمع نبوت فروز أب نديده كل أدم هنوز ر نعت ازر منبس افلاک را رونـق ازو خطسهٔ لولاک ۱۱ رشعهٔ جام کرمش سلسبیل مرغ هواي حرمش جيرئيل نور مبین نامیهٔ پاک او مبل متين ملقة فتراك او

O.

زهی چوعقل علم گشته در نکوکاري مسلم است ترا منصب جهانداري کمهنه قاعده تبهغ تو جهانگيري کههنه خاصيت دست تو کهراري زمانوا که بغفلت بخواب در شده بود

کشیده حزم تر در دیده کعل بیداری

جهان کلاه زشادی بر افکند گر تو

بههفت قبلعهٔ افلاک سرفورد أرى

توئی که حجت تو تیغ قاطع ست بدان

که تو بسملکت بعسرو بسر سزاراري

جهانیان بتر امروز چشم آن دارند

که زیر دامن انصاف شان نگهداری

2. Answer any three of the following:-

(a) Give in your own words the

حكايت سلطان محمود با پير خاركش

- (b) Describe the miracles of the Prophet alluded to by Jāmī, in his $\mbox{\em Miracles}$
- or of طهير فاريابي or of طهير فاريابي عطار .
- (d) Write a short description of Children following that of Sa'dī.

 3. Turn into prose order, or give the substance in Persian of, the following:—

پادشاهی برد نیکر شیرهٔ

چاکسري را داد ررزي مسيسوهٔ

ميوة ارخوش همي خورد أن غلام

گفت خوشتمر زين نخموردم من طعام

از خوشی کان جاکرش می خورد آن

بادشه خبرد آرزر سیکرد آن

گفت یک نیمه بمن ده ای غلام

زانکه بس خرش میخوری تر این طعام

4. Answer any two of the following: --

(a) Analyse:—

صوفی میرفت در بغداد زرد * در میان راه آرازی شنود

(b) Mention the different kinds of with examples.

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- (o) Pick out the different instances of قركيب اضافى in extract B, Question 1.
- 5. Give the significance of ی in the following : خدارندی گوی سعادت راستی زهی شادی توئی صوفی

25

-34

6. Translate into Persian :-

Once there was a man and his wife. They had no house to live in. They lived in the fields, and they slept at the foot of a tree. The man caught a fish: he was a fisherman. The man was happy. He said, 'Why do men live in houses? This tree is my house. Why do they sleep in beds? The fields are my bed.' But his wife was never happy. She said, 'Why did I marry a poor fisherman? We have no house but the fields, no bed but the dust, no food but fish.' One day the fisherman went to the sea to catch fish. He put his net in the water. Then he sat on a stone. The sun was hot but he fell asleep. When he awoke he took his net. There was one fish in the net.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following: -

Λ.

سلطان از مهابت این سخی پیاده شد و گفت زنهار ای مادر من طاقت آن سر پل ندارم و که بر تر ستم کرده و مورت حال باز نمای تا داد تر ازر بستانم و گفت ای ملک همین غلام که بعضور تر تاریانهٔ عقربت بسر من کشید چشمهٔ عیش من مکدر ساخته است و گاری که معیشت من و یتیمان من از شیرش مهیا شدی بکشته و کباب کرده و ملک شاه بفرمود تا غلام را سیاست کردند و عرض ماده گار از حلال تر وجی بدر دادند *

B.

سه شبانه روز در زاویهٔ عزلت قرار گرفت - و از هیچ میر فتوحی روی نه نبرد - هر ساعتی نصیف تر و ضعیف تر

میشد ماقبت ضعف رری بقوت نهاد - و مرد زاهد قوی ضعیف شد - ر از ادای مراسم طاعت ر عبادت باز ماند - حق تعالی پیغمبر آن زمان را نزدیک ری فرستاد - ر بعتابی تمام پیغام داد که ای بندهٔ من مدار عالم بر اسباب ر رسائط نهاده ام اگرچه قدرت من بی سبب می تواند ساخت اما حکمت من اقتضای آن کرده که اکثر مهمات بسبها ساخته ر پرداخته گردد - ر بدین سبب قاعدهٔ افاده ر استفاده تمید یابد - پس اگر تو سبب فائده دیگری ترانی شد بهتر از آن باشد که بسبب دیگری فائده گیری *

C.

گریند پادشاه هند دشمنی داشت ر بقصد حمله قدم در مملکت از گذاشت - سلطان هند خراست نعل بها بار دهد ر صلح کند - بهرام مانع شد رگفت با خصم جنگ میکنم - چون لشکر مقابل یکدیگر گشتند بهرام بسرکردهای هند گفت شما از پست سر من آماده کار باشید - و خود حمله بر سپاه دشمن کرد - و تیرها بطرف آنها انداخت - لشکریان آنطرف دیدند در جلو این تیرها ایستادن ممکن نیست - پشت به بهرام کرده گریختند - و بهرام غنایم زیاد از ایشان بچنگ آورد - چون پادشاه هند این هنراز بهرام دید ولایات اردبیل و مکران را به پادام داد دختر خود را بار تزویم کرد *

2. Answer any two of the following questions:-

(a) Give a brief account of the life of Faridun. Who succeeded him in his kingdom?

(b) Compare or contrast between the characters of Sultan Mahmud and Nadir Shah.

(c) Describe shortly the history of Shāpūr Zu'l-Aktāf particularly with reference to his contact with the Roman emperor.

3. Either, Explain in your own Persian :-

من طریق سعی می آرم بجسا لیس لانسان (لا مسا سعی دامن مقصود اگر آرم بکف از غم و اندود مانم بر طرف ور نشد از جهد من کاری کلام

من دران معذور باشم و السلام

Or, Narrate briefly the story of King دابشلیم and the secret

4. Translate into English any two of the following :-

A

مرد باید که مدام صحبت نیکان اختیار نماید و از صحبت بدان همچون تیر بگریزد و زیراکه صحبت در تحسین یا تخریب اخلاق اثری عظیم دارد بدین رجه مولانا روم که یکی از اکابر صوفیای اسلام است فرموده *

صعبت صالم ترا صالم كند صعبت طالم ترا طالم كند

نمی بینی که اگر کسی چند روز با خمار بنشیند یکی از مشاهیر می نوشان بشمار می آید - ر کسیکه گاهی در عمر سر بسجده فرود نیاررده چندی با زاهدی پخته کار مصاحبت نماید در اندک مدتی یکی از تهجد گزاران شب زندهدار میگردد *

B.

توانگرزادهٔ را دیدم بر سر پدر نشسته ر با درویش بچه بمناظره در پیرسته که صندرق تربت پدر ما سنگیس است و کتابهٔ رنگیس - و فرش رخام انداخته رخشت پیروزه در ساخته بگرر بدرت چه ماند - خشتی در فراهم نهاده ر مشتی در خاک برر پاشیده - درریش پسر این بشنید و گفت تا پدرت در زیر آن سنگهای گران بر خود بجنبد پدر می به بهشت رسیده باشد -

خر که بر ری نهند کمتر بار بیشک آسوده تر کند رفتار

 \mathbf{C}

حکیمی نامور را پرسیدند که درختان را که خدای عز رجل آفریده است و برومند هیچ یک را آزاد نخوانده آند مگر سرررا که تصرهٔ ندارد - گوئی دریس چه حکمت است ؟ گفت هر یکی را دخلی معیس هست بوقتی معلوم - گهی برجرد آن تازه آند و گاهی بعدم آن پژمرده و سرو را هیچ ازیس و همه وقت خرش است و اینست صفت آزادگان -

برینکه میگذرد دل منه که دجله بسی

پس از خلیفه بخواهد گذشت در بغداد

گرت ز دست بر آید چو نغل باش کریم

ورت ز دست نیاید چو سرر باش آزاد

5. Translate into Persian:-

Bengal is a fertile country. There are many trees and rivers in it. On account of timely rains in its season, crops grow in abundance in this country. But owing to damp weather the climate is unsuitable for health, and the death rate is higher in this country than in its sister provinces. A particular fever known as malaria takes a heavy toll of human lives every year from this province.

LATIN.

Paper-Setters— { Mr. W. C. Wordsworth, M.A. , Nalinimohan Chatterjee.

Examiners— { Mr. W. C. Wordsworth, M.A. REV. FATHER VERBOCK HAVEN, S.J.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate:-

(a) O matre pulchra filia pulchrior,
quem criminosis cumque voles modum
pones iambis, sive flamma
sive mari libet Hadriano.
non Dindymene, non adytis quatit
mentem sacerdotum incola Pythius.
non Liber aeque, non acuta
sic geminant Corybantes aera,

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tristes ut irae, quas neque Noricus deterret ensis nec mare naufragum nec saevus ignis nec tremendo Iuppiter ipse ruens tumultu.

- (b) Pone me pigris ubi nulla campis arbor aestiva recreatur aura, quod latus mundi nebulae malusque Iuppiter urget; pone sub curru nimium propinqui solis in terra domibus negata: dulce ridentem Lalagen amabo, dulce loquentem.
- (c) Quid brevi fortes iaculamur aevo multa, quid terras alio calentis sole mutamus? patriac quis exsul se quoque fugit? scandit aeratas vitiosa navis cura nec turmas equitum relinquit, ocior cervis et agente nimbos ocior Euro. laetus in praesens animus quod ultra est oderit curare et amara lento temperet risu, nihil est ab omni parte beatum.

2. Explain the allusions in: -

- (a) vidimus flavum Tiberim, retortis litore Etrusco violenter undis, ire deiectum monumenta regis templaque Vestae.
- (b) hunc et intonsis Curium capillis utilem bello tulit et Camillum saeva paupertas et avitus arto cum lare fundus.
- (c) hic bellum lacrimosum, hic miseram famem pestemque a populo et principe Caesare in Persas atque Britannos vestra motus aget prece.
- (d) tecum Philippos et celerem fugam sensi relicta non bene parmula, cum fracta Virtus et minaces turpe solum tetigere mento.
- 3. Say briefly in what you think the charm of Horace's Odes consists.
- 4. Give the meaning of—platanus caelebs, victima nil miserantis Orci, micat inter omnis Iulium sidus, audax Iapeti genus, sororum fila trium atra, approbrium pagi.

5. Translate :--

(a) Quae quum ita sint, Catilina, perge quo coepisti: egredere aliquando ex urbe; patent portae; proficiscere. Nimium din te imperatorem tua illa Manliana castra desiderant. Educ tecum etiam omnis tuos, si minus, quam plurimos; purga urbem. Magno me metu liberaveris, modo inter me atque te murus intersit. Nobiscum versari iam diutius non potes; non feram, non patiar, non sinam. Magna dis immortalibus habenda est atque huic ipsi Iovi Statori, antiquissimo custodi huius urbis, gratia, quod hanc tam taetram, tam horribilem tamque infestam rei publicae pestem totiens iam effugimus.

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(b) O bellum magno opere pertimescendum, cum hanc sit	
habiturus Catilina scortorum cohortem praetoriam! Instruite n inc,	
Quirites, contra has tam praeclaras Catilinae copias vestra praesidia	
vestrosque exercitus. Et primum gladiatori illi confecto et saucio	
consules imperatoresque vestros opponite; deinde contra illam naufra-	
gorum eiectam ac debilitatam manum florem totius Italiae ac robus	
educite. Iam vero urbes coloniarum ac municipiorum respondebunt	
Catilinae tumulis silvestribus.	
6. Give a brief account of the part taken by Cicero in crushing	5
this conspiracy.	
7. Explain:—illa Manliana castra, gladiator, coloniae, municipia Iupiter Stator, Quirites, cohors praetoria, imperatores.	10
8. Who were Q. Metellus and M. Lepidus? Explain pridic Kal. Ianuarias, ante diem vi Kal. Novembris. Give the derivation of —naufragium, colonia, praesidium, gubernator.	5
9. Explain with illustrations the use of the ablative absolute, the genitive of price, and the accusative of the part affected.	6
10. Give the perfect participles of—orior, ordior, odi, figo, pario, audeo, duco, comparo.	6

(a) He remained three months.

(b) Provided that the enemy run away.....

11. Give the Latin for the words italicized:-

(c) He could not speak for tears.
(d) We must use our time.

(e) I am sorry for what I did.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English :-

Vereor ut hoc tibi profuturum sit.

(b) Nemo risum praehuit qui ex se cepit.
 (c) Huic culpae ignosci potest.

(d) Alius dircumspiciatur cum quo conferre possimus manum.

(e) Vis scire quam non paeniteat hoc pretio aestimasse virtutem?

2. Translate into English:—

Hic ut e navi egressus est, quamquam Theramenes et Thrasybulus eisdem rebus praefuerant, simulque venerant in Piraceum, tamen illum unum omnes prosequebantur, et, id quod numquam antea usu venerat, nisi Olympiae victoribus, coronis aureis aeneisque vulgo donabatur. Ille lacrimans talem benevolentiam civium suorum accipiebat, reminiscens pristini temporis acerbitatem. Postquam astu venit, concione advocata sic verba fecit, ut nemo tam ferus fuerit, quin ejus casum lacrymarit, inimicumque his se ostenderit, quorum opera patria pulsus fuerat, proinde ac si alius populus, non ille ipse, qui tum fiebat, eum sacrilegii damnasset. 3. Translate into English :-

Odi profanum vulgus et arceo; favete linguis : carmina non prius audita Musarum sacerdos virginibus puerisque canto. regum timendorum in proprios greges, reges in ipsos imperium est Iovis, clari Giganteo triumpho, cuncta supercilio moventis. est ut viro vir latius ordinet arousta sulcis, hic generosior descendat in Campum petitor, moribus hic meliorque fama

contendat, illi turba clientium sit maior: aequa lege Necessitas sortitur insignes et imos; omne capax movet urna nomen.

4. Translate into Latin:

(a) All the world knows that the moon moves round the earth.

(b) So far are we from admiring great cities, that Rome itself does not satisfy us.

(c) Success comes to the common man, and even to commonplace ability.

(d) I have bedecked them with gold and silver and ivory. but within there is nothing good.

(e) Let every season, every place, teach you how easy it is to renounce Nature and fling her gift back in her face.

Translate into Latin: -

Cincinnatus lived on the other side of the Tiber on a little farm, which he cultivated with his own hands. The messengers who had been sent by the senate found him sitting in the fields. They told him that they had come to inform him that he had been appointed dictator, and asked him to set out with them as soon as possible. Thereupon he bade his wife Racilia bring him his toga, in order that he might not displease the messengers of the senate. When it had been brought, he said he was willing to obey their commands, and would go with them at once.

FRENCH.

Paper-Setters Examiners-

REV. FATHER E. POPULAIRE, S.J. Mr. Nagendranath Chandra, M.A.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any five of the following passages:-

(a) Ma mère elle-même fut tellement émue par la reconnaissance passionnée et le dévouement un peu craintif de cette mignonne et tendre créature, qu'elle se mit à l'appeler : 'Ma fille.' Parfois quand 25

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la petite avait fait quelque chose de bon, de délicat, ma mère relevait ses lunettes sur son front, ce qui indiquait toujours une émotion chez elle, et elle répétait : 'Mais c'est une perle, une vraie perle, cette enfant!' Ce nom en resta à la petite Claire, qui devint et demeura pour

nous Mlle. Perle.

- (b) C'était l'hiver dernier, dans une forêt du nordest de la France. La nuit vint deux heures plus tôt, tant le ciel était sombre. J'avais pour guide un paysan qui marchait à mon côté, par un tout petit chemin, sous une voîte de sapins dont le vent déchaîné trait des hurlements. Entre les cimes, je voyais courir des nuages en déroute, des nuages éperdus qui semblaient fuir devant une épouvante. Parfois sous une immense rafale, toute la forêt s'inclinait dans le même sens avec un gémissement de souffrance.
- (c) Sur la montagne blanche, le tas de maisons pose une tache plus blanche encore. Elles ont l'air de nids d'oiseaux sauvages, accrochées ainsi sur ce roc, dominant sur ce passage terrible ou ne s'aventurent guère les navires. Le vent, sans repos, fatigue la côte nue rongée par lui, à peine vêtue d'herbe; il s'engouffre dans le détroit dont il ravage les bords. Les deux traînées d'écume pale, accrochées aux pointes noires des innombrables vagues qui percent partout les vagues, ont l'air de lambeaux de toiles flottant et palpitant à la surface d'eau.
- (d) Harp. Hors d'ici tout à l'heure et qu'on ne réplique pas. Allons, que l'on détale de chez moi, maitre juré filou, vrai gibier de potence.

La Fl. Je n'ai jamais rien vu de si méchant que ce maudit vieillard, et je pense, sauf correction, qu'il a le diable au corps.

- (e) Harp. Cela ne sera rien. Allez vite boire dans la cuisine un grand verre d'eau claire. Voilà de mes damoiseaux flouets qui n'ont plus de vigueur que des poules. C'est-là ma fille, ce que j'ai résolu pour moi. Quant à ton frère, je lui destine une certaine veuve dont ce matin on m'est venu parler; et pour toi, je te donne au Seigneur Anselme.
- (f) Harp. Comment, pendard? c'est toi qui t'abandonnes à ces coupables extrémités?
- Clé. Comment, mon père? c'est vous qui vous portez à ces honteuses actions?
- Harp. C'est toi qui te veux ruiner par des emprunts si condamnables?
- Clé. C'est vous qui cherchez à vous enrichir par des usures si criminelles?
 - 2. Write a short summary of the story of Une Vendetta.
- 3. Write short notes on :--Saint Hubert, de l'iau, camaraux, Barbizon,
- 4. Give the principal rules regarding the use and the omission 12 of 'articles' in French. Give examples.
- 5. How are the plural of compound nouns formed in French? Give examples to illustrate your answer.
 - 6. Conjugate the Past Indefinite (Indicative Mood) of falloir.
 - 7. Translate into French:

The holidays are over. John must now return to England. He is a little sad to leave his friends of Paris. He will leave on the 6th August. His parents will be glad to see him again. He will see again his dear old London. He has learnt to speak French a little, and this gives him great joy. His friends at school will be envious of him, and will try also to pick up a little of the French language. John has bought photographs of the different places he saw in France, and on his return he will show them to his friends and relations.

SECOND PAPER.

Candidates are required to give their answers in theeown words as far as practicable.

The figures in the margin indicate full marks.

1. Translate one of the following extracts:-

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(a) Aimez votre jeunesse, aimez, gardez la toute! Elle est de vos ainés l'espoir et le trésor; Portez-la fièrement, sans en perdre une goutte; Portez-la devant vous comme un calice d'or, Peut-être on vous dira d'y boire avec largesse, D'y verser hardiment le vin des passions; D'autres vous prêcheront l'égoïste sagesse Qui rampe et se réserve à ses ambitions. Mais aux vils tentateurs vous serez indociles! La Muse vous conseille et vous saurez choisir; Restez dans le sentier des vertus difficiles, Votre âge a des devoirs plus doux que le plaisir. A vous de mépriser ce qu'un autre âge envie, Tout bien et tout renom qu'on acquiert sans efforts Dieu vous a faits si fiers, si purs, si pleins de vie, Pour les belles amours et pour les belles morts. Venez donc! je vous suis, et nous volons ensemble;

Nous remontons le cours du temps précipité; Vous me faites revoir tout ce qui vous ressemble, Toute chose où rayonne un éclair de beauté.

- (b) Lorsque avec ses enfants vêtus de peaux de bêtes, Echevelé, hvide au milieu des tempêtes, Cain se fut enfui de devant Jéhovah, Comme le soir tombait, l'homme sombre arriva. Au bas d'une montagne en une grande plaine; Sa femme fatiguée et ses fils hors d'halome Lui dirent : 'Couchons-nous sur la terre et dormons.' Caīn, ne dormant pas, songeait au pied des monts. Ayant levé la tête, au fond des cieux funèbres, Il vit un œil tout grand ouvert dans les ténèbres Et qui le regardait dans l'ombre fixement. ')ge suis trop près, dit-il avec un tremblement. Il réveilla ses fils dormant, sa femme lasse, Et se remit à fuir sinistre dans l'espace. Il marcha trente jours, il marcha trente nuits. Il allait, muet, pâle et frémissant aux bruits, Furtif, sans regarder derrière lui, sans trêve, Sans repos, sans sommeil: il atteignit la grève Des mers dans le pays qui fut depuis Assur.
- 2. Translate one of the following extracts:-

(a) L'homme appelé à commander aux autres sur les champs de bataille, a d'abord, comme dans toutes les professions libérales, une instruction scientifique à acquérir. Il faut qu'il possède les aciences exactes, les arts graphiques, les théories des fortifications. Ingénieur, artilleur, bon officier de troupes, il faut qu'il devienne en outre géographe, et non géographe vulgaire, qui sait sous quel rocher naissent le Rhin ou le Danube, et dans quel bassin ils tombent, mais géographe profond, qui est plein de la carte, de son dessin, de ses lignes, de leur rapport, de leur valeur. Il faut qu'il ait ensuite des connaissances exactes sur la force, les intérêtts et le

caractère des peuples; qu'il sache leur histoire politique, et particulièrement leur histoire militaire; il faut surtout qu'il connaisse les hommes, car les hommes à la guerre ne sont pas des machines: au contraire, ils y deviennent plus sensibles, plus irritables qu'ailleurs, et l'art de les manier d'une main délicate et ferme, fut toujours une partie importante de l'art des grands capitaines.

- (b) Dès que César est assis, Cimber se jette à ses pieds, lui demandant le rappel de son frère, qu'il avait exilé. Les autres conjurés entourent César pour appuyer cette demande: le dictateur refuse: trop pressé par leurs instances, il veut se lever; Cimber le retient par sa robe. C'était le signal convenu. César s'écrie: Ce ne sont plus des prières, c'est de la violence! Casca, placé derrière son siège, le frappe à l'épaule, mais faiblement; car la crainte d'un coup si hardi rendait sa main tremblante et son poignard incertain. Misérable! que faistu? dit César en se retournant; en même temps il perce le bras de Casca avec un poinçon qu'il tenait dane la main. Casca appelle son frère à son secours; tous les conspirateurs tirent leurs poignards; César s'élance sur eux; il écarte les uns. renverse les autres; il reçoit enfin un coup de poignard dans la poitrine. Le sang qu'il perd, les glaives qu'on présente à ses yeux n'effraient pas son courage; il se défend de tous côtés, quoique sans armes, comme un lion furieux et blessé; mais au moment où il aperçoit Brutus, qui lui enfonce son poignard dans le flanc, il prononce en gémissant ces mots: Et toi, Brutus, aussi!
 - 3. Translate into French:-
- (a) He has bought himself a nice house. Has he shown it to you?
 - (b) He was so tired that he fell asleep in the arm chair.
 - (c) I saw the sea last week for the first time.
 - (d) We shall return home on August 31st.(e) No one could tell us where he was.
 - (f) The newspapers have come. Which one will you have?
 - 4. Translate into French:-

The unfortunate Queen Margaret and her child, after the defeat of Towton, were wandering in a forest after having been robbed by some brigands. As the night was approaching, they continued to wander through the wood, when she perceived another robber coming towards her, armed to the teeth. Any other woman would have been terrified, but Margaret with the courage of despair, placing young Edward in the man's arms, said: 'My friend, this is the son of your king: save him from his enemies.' This man, not destitute of generous feelings, was moved by her noble confidence.

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BENGALI TEXT (For FEMALE CANDIDATES).

Paper-Setters— {SRIMATI SANTA NAG, B.A. SUNITIBALA CHANDA, M.A.

Examiner-Mrs. TATINI DAS, M.A.

FIRST PAPER. (POETRY TEXTS).

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Explain any two of the following extracts with reference to 20 the context:—
 - (a) নানা স্থরের আকুলধারা

 মিলিয়ে দিয়ে আত্মহারা

 একটি নমস্কারে, প্রভু,

 একটি নমস্কারে

 সমস্ত গান সমাপ হোক্

 নীরব পারাবারে।

 হংস ষেমন মানস্বাত্তী.

 ভেমনি সাবা দিবসরাত্তি

 একটি নমস্কারে, প্রভু,

 একটি নমস্কারে

 সমস্ত প্রাণ উডে চলুক্

 মহামরণ পারে॥
 - (০) প্লাবনে সলিল যথা উঠে উথলিয়া
 চাপায়ে ভটিনা-বক্ষ, উঠিল তেমনি
 শোকাবেগ সতী-হাদে পতির বচনে।
 সম্বরিয়া মহাপ্রাণা মহাথৈর্য্যে পুন:
 সে উচ্ছাস, দীর্ঘবাস ফেলিয়া তথন
 উত্তরিলা—"হায় প্রভো, দোষী কত দোষে
 এ দাসী বিধির পদে, তাই দিবানিশি
 দেলিহান হুতভুক্ শৃতমুখ দিয়া
 দহিছে আমারে, আমি কহিব কি আর!
 - (c) "ভব ভাগ্যে, ভাগাবতি ৷ হতজীব রণে ইক্সজিং ৷ তেঁই লক্ষা বিলাপে এরণে দিবানিশি এচদিনে গতবদ্ দেবি

কর্ম্ব বলী। কাঁদে মন্দোদরী;
রক্ষঃকুলনারীকুল আকুল বিষাদে;
নিরানন্দ রক্ষোর্থী। তব পুণাবলে,
পদ্মাক্ষি, দেবর তব লক্ষ্মণ স্থর্থী
দেবের অসাধ্য কর্ম্ম সাধিলা সংগ্রামে,—
বধিলা বাসবজিতে — অজেয় জগতে।"

- 2. Translate any two of the following extracts into English:— 20
 - (a) দেখিলেন হরি জ্ঞান, ভক্তি, কর্ম্ম,
 তিন মহাস্রোতে করিয়া প্লাবিত
 সমগ্র ভারত, আজি এ প্রভাসে
 কৃষ্ণ-প্রেমার্ণবৈ হয়েছে মিলিত।
 প্রণমি সাষ্টাঙ্গে আকুল উচ্ছাসে
 কহে শৈল দর দর ছনয়ন—
 "দেখ নরনাথ! দেখ নারায়ণ!—
 আর্য্য অনার্য্যের প্রেম সাম্মলন!
 তিযুগের হিংসা, কলহ, বিদ্বেষ,
 তব প্রেম-প্রোতে গিয়াছে ভাসি।
 দেখ ধর্মারাজা! প্রেম রাজ্য তব!
 কি প্রেম!—কি শান্তি!—শ্রুভরাশি।"
 - (৫) অবোধ্যাভূষণ তুমি অবোধ্যার সার।
 তোমা বিনা অবোধ্যা দিবসে অন্ধকার॥
 চল প্রভূ অবোধ্যায় লহ রাজ্যভার।
 দাসবৎ কর্ম্ম করি আজ্ঞা অমুসার॥
 শ্রীরাম বলেন তুমি ভরত পণ্ডিত।
 না বুঝিয়া কেন বল এ নহে উচিত॥
 মিধ)। অমুযোগ কেন কর বিমাতার।
 বনে আইলাম আমি আজ্ঞায় পিতার॥
 চতুর্দশ বৎসর পালিয়া পিতৃবাক্য।
 অবোধ্যা যাইব আমি দেখিবা প্রত্যক্ষ॥
 - (c) শিবিরে বসেন প্রভু র বুক্লমণি,
 আনন্দসাগরে মগ্ন; সন্মুখে সৌমিত্রি
 রথীশ্বর, মথা ভক্ল হিমানীবিহনে
 নবরস; পূর্ণশিশী স্থহাস আকাশে
 পূর্ণিমায় কিম্বা পদ্ম, নিশা অবসানে,
 প্রফুল। দক্ষিণে রক্ষঃ বিভীষণ বলী

মিত্র, আর নেতৃ ষত—গ্রন্ধর্ব সংগ্রামে— দেবেক্রে বেড়িয়া যেন দেবকুলরণী।

- 3. Translate into English any one of the following passages:-
- (a) যাহাতে প্রাণে ভাল হইবার জন্ম প্রগাঢ় আবেগ জন্মে, তজ্জন্ম চেষ্টা করা কর্ত্তবা। ভাল হইতে বাঁহার বলবতা ইচ্ছা আছে ঈর্বা তাঁহার ভিতরে কার্য্য করিবার অবকাশ পায় না। ভাল হইবার জন্ম বাহার হৃদয় ব্যাকুল হয়, তিনি সক্ষদা পরের গুণকাহিনী গুনিয়া, পরের ভাল দেখিয়া দেখিয়া, আপনাকে উন্নত করিবার চেষ্টা করেন, পরের দিকে কুদ্ষ্টিতে তাকাইবার তাঁহার সময় থাকেনা ও পরের মন্দ চিস্তা যে নিজের ভাল হইবার পথে কণ্টক, তাহা তিনি বিশেষভাবে হৃদয়শম করিতে পারেন। যে অপর কোন ব্যক্তির প্রতি ঈর্বাধিত, তাহার মন সর্বাদা সেই ব্যক্তির অনিষ্ট করিবার জন্ম ধাবিত হয়, তাহার আর ভাল হইবার অবসর থাকে কোথায় প
- (b) এই মহাপ্রধের ঈদ্দা মহীয়সা কীর্ত্তির কথনও বিলয় হইবে
 না। পৃথিবীর যে কোন সভাদেশ এই মহাপুরুষকে পাইলে, আপনাকে
 সন্মানিত মনে করিতে পারে। পৃথিবীর যে কোন সভাজাতি এই
 মহাপুরুষের সমূচিত সন্মান রক্ষা করিতে পারিলে, আপনাদের গৌরব
 বোধ করিতে পারে। বাঙ্গলার সৌভাগ্য যে তাহার ক্রোড্দেশে ঈদৃশ
 মহাপুরুষের আবির্ভাব হইয়াছিল। বাঙ্গলা সাহিত্যের একান্ত সৌভাগ্য
 যে, ঈদৃশ মহাপুরুষের অন্থরানে, যত্নে ও অধ্যবসায়ে তাহার পরিভারের
 সাহিত পরিপুষ্ট হইয়াছিল। এই সৌভাগ্যের মধ্যে এক বিষয়ে বঙ্গের
 নিরতিশয় হর্ভাগ্য ঘটয়াছে। বঙ্গের কৃতী পুরুষগণ এই মহাপুরুষের
 সমুচিত সন্মানরকায় আজ পর্যান্ত উদাসীন রহিয়াছেন। কিন্ত বিদ্বাদ্ধ
 সার্থিক হয়, তাহা হইলে অক্ষয়কুমারের নাম বিশ্বতিসাগরে নিমজ্জিত হইবে
 না। সাহিত্য ক্ষেত্রে অক্ষয়কুমারের অসামান্ত কার্যাই তাহাকে অক্ষয়
 করিয়া রাথিবে।
- 4. (a) Either, What is the moral underlying the Birakumar-badha Kabya? Write a short note on the metre and the language in it.
- Or, Describe the funeral scene of Meghanada as depicted in the Meghanabadadha Kabya.
- (b) Give an estimate of গীতাঞ্জল in the field of 9 Bengali literature.
 - 5. (a) Rewrite the following after necessary correction:-

জীবনে সাফলাতা লাভ সহজ লভ্য নহে। মহিয়সি সাধনা ও জাত্যাধিক মানসিক বল না থাকিলে সামান্ত কাৰ্য্যেও উৎকৰ্ষতা লাভ হয় না। আশা করি এই সমস্ত শরণে রাথিয়া জীবনে কার্য্য করিলে সুখী ছইবে। কর্মক্ষেত্রে ভগবাণকে বিশ্বিত হইলে চলিবে না। **2**C

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- (b) Fill up the gaps:
- ভূদেব—কর্মকেত্রে—করেন, তথন তিনি—ভাবে—ছিলেন।—জ্ঞান-ভাণ্ডারের—-তাঁহার—-উদ্বাটিত হইয়াছিল।—শিক্ষালাভ—-তিনি—বিষয়ে— হইয়াছিলেন।
- (c) Substitute a single word for each of the following :—

 যাহার শত্রু জন্মে নাই। যাহার স্থানী বিদেশে বাস করেন। যাহা
 পূক্ষে,শোনা যায় নাই।
- (d) Clearly define a কর্মধারর and a বছত্রীছি compound with allustrations.

SECOND PAPER. (PROSE TEXTS).

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any one of the following passages :-
- (a) জগতে এক শ্রেণীর লোক আছে,—তাহাদের পতনশক্তি বেমন প্রবল, উত্থানশক্তিও তেমনি সত্তেজ। যথন যে দিকে ঝোঁক দেয় তথন সেই দিকেই তাহার পরাকাষ্ঠা লাভ করিয়া ছাড়ে। মৃগাঙ্কও সেই দলের লোক। সে যতথানি নামিয়া গিয়াছিল, উঠিতে আরম্ভ করিতেই, ঠিক ততথানি বেগের সহিত উঠিতে আরম্ভ করিয়াছে। ভিতর হইতে বাহির অবধি সমস্তই আজ সে নৃতন করিয়া গড়িবে ইহাই তাহার ইচ্ছা। তাই পূর্বাচহ্লের কিছু বাকী রাখিবেনা, এইরূপ সঙ্কল্ল করিয়া চারিদিক্ দিয়াই সে একসঙ্গে সংস্কার কার্যাটা আরম্ভ করিয়া দিল। বৈঠকখানার মোহিনী নারীচরিত্রগুলা একদিন অতান্ত কুৎসিত বোধে মুপ্রাপ্ করিয়া পুদ্রিণীর জলে ফেলিয়া দিল; আলমারি খুলিয়া অনেক-গুলি কাঁচের ঠূন্কা বাসন টানিয়া ফেলিল; খান্সামাটাকে বক্ষিস্ সহ মাহিনা চুকাইয়া বিদায় দিল। পরে একদিন হঠাৎ দেখা গেল, বছদিনের অসংস্কৃত অন্দরমহলে রাজমিল্পির দল ভারা বাঁধিতেছে। অবশ্য ইহার ফলে তাহাকে কিছু পাপামুষ্ঠানও করিতে হইয়াছিল।
- (/) ঝডবৃষ্টি থামিয়া গিয়াছে, আকাশ পরিষ্কার, প্রভাত-অরুণের রক্তিমরাগ পূর্ব্ব গগনে দেখা দিতেছে। প্রাতে উঠিয়াই বিছানাপত্র বাধিয়া সকলেই অদমা উৎসাহে গাঁটিতে লাগিলাম। পথে বেশ শীত বোধ হইতে লাগিল। প্রভাত-স্থ্য-কিরণে জগৎ হাসিয়া উঠিল। বন কুম্মের গঙ্কে দশদিক ভরিষা গেল। বুক্ষশাখান্তিত পাহাড়ি বুলবুলের গান শুনিতে

শুনিতে আনন্দে চলিলাম। তাহার সহ নির্মবের কলতান মিশিয়া কর্ণ-বিবরে বেন অমৃতধারা ঢালিতেছিল। এখানে মন্দিরমধ্যে নারায়ণের স্থানর মৃর্ট্টি আছে। তাঁহাকে দর্শন করিয়া প্রণাম করিয়া আমরা সাড়ে তিন মাইল পথ চন্দ্রা চটী আসিলাম। এখানে চন্দ্রশেখর মহাদেব ও তুর্গাদেবীর মৃর্টি আছে। পাণ্ডা বলিল এই স্থানে কুল্র চন্দ্রানদীর সহ মন্দাকিনীর সঙ্গম হইয়াছে।

2. Explain any two of the following passages with reference to the context:--

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- (a) বিশ্বনাথ বিশ্ব জুড়িয়া আছেন, ক্ষুদ্র মানব জীবনে তাঁহার প্রতিমৃত্তি পিতায় মাতায় স্বামা সথায় শতভাবে প্রকটিত।— একজন সাধু রমাবল্লভের সহিত বিবিধ শাস্ত্রালোচনার মধ্যে এই কথাটি বলিবামাত্র বাণীর ক্ষ্মিত চিত্ত ইহা একেবারে কেন গ্রাস করিয়া লইল ? সাধু বলিলেন,—"জগতে এই সম্বন্ধে যত বিস্তৃত করা যায়, মনের ততই প্রসার হয়। ক্ষুদ্র 'স্বকে' বৃহৎ করিতে পারিলেই 'অহং' এর যথার্থ ধ্বংস ঘটে। ঘরের শার আঁটিয়া শত্রুহস্ত হইতে আত্মরক্ষা করা ভাল, না, সদ্ধিদ্বারা শক্তিহীন হওয়া শ্রেয়ঃ ?
- (৫) ভক্তহৃদয়ের ভক্তিরস শোণিতাক্ষরে বেন সেখানে ফুটিয়া আছে,—চাহিয়া থাকা যায়না, এমনি উজ্জ্বল লাল! সে শিহরিয়া চক্ত্রুদিল। এ কি লীলা নাথ! এ কি ভোমার লীলা? না, না, প্রেমাবভার তুমি, ভোমার ভ এ ভূষা নয়। এ কি ভোমার সাজে? এ যে অট্টহাশ্রময়ী নয়মুগুমালিনা নির্ম্মভার প্রভিক্ততি করালীর বীভৎসভ্ষা চিক্ত! ভোমাতে ত হিংসার লেশ নাই। প্রাণময়; প্রেমময়—বে তুমি!—ভবে এ কি? এ পাপ যে আমারই।
- (c) চলিতে চলিতে পথিক দল যেমন তৃষ্ণায় ব্যাকুল, আয় শ্রীভগবান্ তৃষার্ত্ত পথিকক্লের জন্য মধুর নির্মারের জলধারা অকাতরে ঢালিরা দিতেছেন; এমন স্থমধুর জলও কথন পান করি নাই। এই নীরস পাষাণের বক্ষ ভেদ করিয়া কোণা হইতে এই স্বাত্ন জলধারা পতিত হইতেছে, ইহা দেখিয়া ভগবানের অপার কর্মণার কথা ভাবিয়া চক্ষ্ আনন্দ-অশ্রুতে পূর্ণ হয়। এই বিজন বনভূমিতে সহায়হীন মানব তৃষ্ণায় ব্যাকুল হইয়া পর্বত্তমালাময় স্থানে মরিয়া ধাইত কিন্তু ক্লণাময় ভগবানের অপার কর্মণা।
- 3. (a) Give an estimate of the character of either অধ্যন্ত্ৰণ or মুগাহমোহন as depicted in মুদ্ৰান্তি।
- (b) Describe the natural scenery as narrated in the pilgrimage to Kedarnath from Rambari with a special reference to the authoress's reverence.

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4. Either, What is a মহাকাৰ্য ? Is Hemchandra's ব্ৰসংহাৰ a 20 মহাকাৰ্য ? How far is Hemchandra indebted to Madhusudan with regard to his ব্ৰসংহাৰ ?

Or, What special features do you find in Hemchandra's lyrical poems? Name some of his lyrics.

5. (a) Form short sentences to distinguish between any three 6 of the following:—

আপন and আপণ; নীর and নাড়; বিশ্বত and বিশ্বিত; দ্যুত and দ্ভ; ৰিপ and ৰীপ।

(b) Use the antonyms of any six of the following words in sentences of your own:—

অমুরাগ, ঐহিক, নিরভ, স্ক্র, চঞ্চল, আবির্ভাব, সঞ্চয়, ক্লত্রিম।

6. (a) Combine the following sentences into a simple one:-

নরেন্দ্র অতিশয় সন্তরণপটু ছিলেন। তিনি সন্তরণ দিয়া গঙ্গা পার হইলেন। তিনি অপর পারে উপস্থিত হইলেন। তিনি সেই অন্ধকার নিশীথে সিক্তশরীর ও সিক্তবন্ত্রে বালুকাক্ষেত্রে বিচরণ করিতে লাগিলেন।

(b) Compose a simple sentence in Bengali using all the cases in it.

HINDI (For Female Candidates).

Paper-Setters— { Mr. Nalinimohan Sanyal, M.A. Lala Sitaram, B.A.

Examiners— { Mr. Ambika Bajpayi. Nalinimohan Sanyal, M.A.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Explain one of the following, with reference to the context:-
- (a) पूजा करनेवाल अपनी पृजा का फल और व्यापारी अपने माल का मोख चाइते हैं। में नेवल आशा से आया इरं. पूजा लेकर नहीं; में भोख मांगने आया इरं, व्यापार करने नहीं। मेरे साथ वहीं कर जो तेरे योग्य है, न कि वह जिसकी योग्य में इरं।
- (b) छपट्यकों की शिषा से मंड फिरना, भृत मार्ग पकड़ना, विहानों पर नीचता का देंच लगाना न चाड़िये। छपटेशकों को मन्त्रज़ी बज़ाज़ों को ट्रकान सी है, जब तक दाम न दोगे, माल न पाचोगे। देसे डो जब तक खड़ा न डोगी, तब तक कख्याच न डोगा।

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2. Translate any two of the following passages into English:-

(a) साधु सन्त कर तृप रखनारा।
धरै ग्रद्धि धन वन अधिकारा॥
चरवाहा वकरो हिन रहर्दे।
नहि चरवाह हैत वह अहर्दे॥
आज लखी एक पूरनकासा।
दक निराभ बेठो तन कामा॥
कक्क दिवस बीने धक धारा।
हरे दुहुन कर धरनि सरारा॥
हर तो लिखा सीह जब आवा।
सेद दाम तृप माहि मिटावा॥
गाड़े सनक खीटि जी देखे।
धना टारट सब एकहि लेखे॥

(b इनकी कविता में एक अपनर ऐमा इं।ता है कि की में जगह करे। किसी ममग्र एक कांव कहीं जाता था। उमने देखा कि एक मनुष्य बहुत व्याकुल पड़ा है। उसे दंखकर उस कवि ने एक दंशहा पढ़ा—

> ाक भीं मर को सर लग्यो, कि भीं मूर को पीर। कि भीं मूर को पद सुन्थों, जो अस विकल सरोर॥

- (c) लालत-पद वन्याम और अवग-मनोहर अनुपास-कटा निवन्धन से जयदेव की रचना अत्यन्त हा चमत्कारिया है। सधुर पद-विन्यास में तो बड़ वड़े किव भी इस से निसान्देह हार्व हैं। इन्होंने इस काव्य में अपना शाक्तशालना रचना-मिक्त और चिक्तरञ्जन सहावशालत का एकशिय प्रदर्शन क्या है।
- 3. Esther, Who was Sankarāchārya? When did he live? 15 What were his ideas about Godhead and Creation?
- Or, Who was Ramanuja? When did he live? How did his ideas about Godhead and Creation differ from those of Sankaracharya?
- 4. (a) Write sentences to bring out the genders of five of the 10 following:—

दुलार, बैर समभा, मर्माजद, नमाज, भीका, वर्ताव, पहचान, लालच, घंस।

(b) Give the meanings of any five of the following words and expressions:—

बलवाई, महानाः क्रतप्तः विलक्षोः जाखां शिकत्रे, रार, गिलाः चनपत्य, निक्वाः

(c) Use five of the following words and expressions in sentences of your own:—

ताड़ जाना; हेत्रां होना; गिरेदिन; उसका सितारा चमका; किसी की चास्त्र में गिर जाना; मिर जों रन बैठा, गृगे का गुड़; विज्ञापात।

- 5. Give an account of the life of Sūr Dās, dwelling particularly on the rival opinions about his birth, lineage, and blindness. Wherein his greatness lie?
- 6. Translate one of the following passages into Hindi:—

 (a) The traveller played with the child the whole day long, and they were very merry. The sky was so blue, the sun was so

bright, the water was so sparkling, the leaves were so green, the flowers were so lovely, and they heard such singing birds and saw so many butterflies, that everything was beautiful. This was in fine weather. When it rained, they loved to watch the falling drops, and to smell the fresh scents. But when it snowed, that was best of all.

(b) In Japan the people build their houses chiefly of paper with a light framework of wood. The outer walls are only shutters, opened in the daytime to let in light and air. The rooms also are divided by sliding paper partitions, and the only windows are sheets of semi-transparent paper. The Japanese build their houses so slightly because of earthquakes which often shake down whole towns. Such houses are built up again when burnt down.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable

The figures in the margin indicate full marks.

- 1. 'इन्दो का वर्त्तमान साहित्य प्राचीन काव्य से किन प्रधान बातों में भिन्न है ॰ 10 इस भेद का कारण का है और इसका प्रभान का है ?
 - 2. Explain any one of the following passages in Hindi :-

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- (a) बान करें निहिचे कत सीं यहि कारन क्विय नाम परी है।
 जाहिर था बसुधा तल में यह बैन सहान प्रभाव भरो है।
 ता गुन मीं विपरीत चले नृपता सहं लाभ कक्षूं न लखाई!
 पान सलीन परे धिक हैं अपकीरति जास उसीं दिसि छाई॥
- (b) सुप्रवन्ध ग्रावर्णन पूर्णताहा में आता है। जिस कथन की उठावे उसका सांगीपाग का कथन किवता शक्ति का एक अच्छा प्रदर्शक है। धद सितराम की रचना देखी जावे ता विदित हागा कि इस किव में कितना अधिक भाव पृष्टी-करण का ग्राव वर्षमान है।
 - 3. Translate any two of the following passages into English:

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- . य मेर मितों यह पहाड़ प्रदेश ऐसा नेटंगा है कि जिन लागों ने उधर की याषायें को हैं वदा वहा का कितनाइयां जानते हैं। ष्यप्रचितों की समक्त में तो वहां पहुंचने पर कुछ भाता हा नहीं। जब वे पहाड़ में प्रवेश करते हैं तब पहिले जुमीन घोड़ा घाड़ा चढ़ता हुई जान पड़ता है। किर दूर पर बादल सा जान पड़ता है। ऐसा जान पड़ता है कि हमारे सामने दाहिने से बायें तक बादल छाया हुआ है।
- (b) समग्र बातन कुछ देर नहीं लगतो। पंद्रह दिन यों ही बीत गये।
 तब एक दिन महाराज ने मंचा कि देखना चाहिये जुलाहों ने कितना कपड़ा तैयः र
 किया। पहिली ता बाजा ने सीचा कि चलीं हम खुद ही चलकर देख चावें पर
 मन ही मन कुछ माच विचार कर कक गये। विचार करते करते उन्हों ने सीचा
 कि हमारा दीवान चपने पद के लियं बहत योग्य है क्यों न सब से पहिली इसी की
 परीचा ली जाए।

- (c) भवने प्यारे देश की सुध करके कीन ऐसा पाषाय हृदय है जो प्रेम से विश्वल न हो जायगा? जिसका रज में लीट लीट कर हम खेले हैं, जहां की गायों का हम ने मीडा मीडा दूध (पया है, जहां के हरे भरे खेतों का हम ने भन्न खाया है, जहां की हवा से हम ने अपने सधुरतमजीवन की सामें भरी है, वहां की प्यारी याद पर क्या हम दो बूंद आंसून चढ़ायें।
 - 4. Re-write the following, correcting the mistakes:-

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बाल् की महल जी सुन्दर प्रासाद का भान्ति भाकास से बात बोलता था गिर चुकी या चमक दमक जाता रही था। चहल पहल की स्थान में पहिली की भान्ति घना भन्धकार काबी थी। वह व्याकुल हो क्टपटा रही थो। पुराना सृति सामने सेभाकर खड़ो हो गया उसके साथ पक्तावा भो थो।

- 5. Give some rules for the formation of abstract nouns in Hindi.
- 6. Write an essay in Hindi on one of the following subjects:— 15
 2) हिन्दुओं को तथियाचा—इसको सामा जक और व्यापारिक उपयोगिता।
 - (b) देश-सेवा श्रीर समाज-सेवा।

URDU (For Female Candidates).

Paper-Setters- { Maulyi Mian Md. Zahuruddin Ahmed, M.A. Khan Bahadur Muhammad Yusuf, M.A.

Examiner—Mr. S. Khuda Bukhsh, M.A., B.C.L., Bar.-at-Law,
First Paper.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following:

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(a)

ر فخر عرب زیب معراب ر منبر تمام اهل میکه کو همراه لیکر گیا ایک دن حسب فرمان داور شرهکے کوه پر

یہ فرمایا سب سے کہ اے اہل غالب

سمجهتے هو تم مجهکو صادق که کاذب

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(b)

وه بجلی کا کری تها یا صوت هادی

عرب کی زمین جسنے ساری ہلا دی

نٹی اک لگن دل میں سب کے لگا دی

اک آراز میں سوتی بستی جگا دی

پرا هر طرف غل يه پيغام حق ت

که گوندم آتم دشت و جبل نام حق سے

(c)

سكهائى أنهيس نوع انسان به شفقي

كها ينه هے اسلاميدوں كى علامت

که همسایه سے رکھتے هیں وہ محبت

شب و زور پهنچاتے هیں انکو راحت

رہ جو حق سے اس لئے چاہتے ہیں

وھی ہر بشر کے لئے چاہتے ہیں

2. Write a brief note on any fire of the following:

ر اهب ۔ کاهن ۔ فاران ۔ اصمعی ۔ بو قبیس ۔ آمله

3. Re-write the following passage after correcting the mistakes 10 that you find therein:—

یہاں پر یہ امر کابل لہاز ہے کہ ھمکو اس کام میں بری مہرات کا قائدا ھاصل ہے یہ آسوقت رافع ہوتی ہے جب ھم سلتنت کا مکابلہ سلتنت روما سے کرتی ھیں۔ رومہ اپنی سلتنت کے قبلب میں واقعہ تھا اسلئے ھر وقت اِسکو چاروں ترف سے خترہ لگا رھیگا۔ اِسکے برکھلاف انگلینڈ اپنی سلتنت سے بالکل الگ تھنگ ہے اسکے مطلق اندیشہ نہیں *

4. Either, What is اسم Define and illustrate its different kinds.

Or. What is ode? Enumerate its different kinds and illustrate them.

5. What parts of speech are the following?---

چھوٹا ۔ روٹی ۔ مار پیٹ ہے خوبطورت ۔ سفید پتھر

6. Frame sentences to show the use of any five of the following phrases:—

سر پٹخنا ۔ سنگ آستان ۔ آپ سے باہر ہونا ۔ آسمان سے باتیں کرنا ۔ بات آٹھا رکھنا ۔ ابنت سے اینت بجانا *

- 7. Translate into Urdu one of the following passages :-
- (a) Modern Delhi is not a very old citv. It was built by the Emperor Shāh Jahān, the royal builder, in whose reign the Mughal empire reached its zenith. The emperor intended to have a capital worthy of the great empire over which he ruled. By the blue Jamunā he built a fortified palace for his own use, and directly opposite to it, on the other side of an open maidan, were raised the magnificent they say that five thousand men were employed for six years. The emperor intended to have the new city named Shāh ahānābād after himdomes and lofty minarets of the Delhi Jāmi Masiid. To build this self, but custom is stronger than the will even of an emperor, and the modern city is commonly spoken of as Delhi. To the west of the great mosque lie the streets, bazaars, and houses of the city.
- (b) When I lived a slave among the Spaniards of South America at Buenos Aires, it used to be a common thing for the people to go into the woods and hunt cattle down to supply themselves with food. The hunter mounts his fleetest lorse, and takes with him a strong cord of some length; when he sees one of the wild kind, which he singles out for his prey, he pursues it at full speed, and never fails to overtake it by the greater swiftness of his horse. As he does so, he holds the cord ready, at the end of which a sliding noose is formed, and when he is at a convenient distance, throws it from him with such a certain hand, that the beast is entangled by one of its legs, after which it cannot escape.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:-

جہاز نے جس وقت لنگر کا ۔ کک کمپنی کا انک ملازم ایخ مسافروں کی خدگری کے لئے جہاز بر آیا ۔ جہاز کنارے سے ذرا فاصلے بر کھڑا ھو تا ھے ۔ اس لئے مسافروں کے آتارنے کے لئے کک کمپنی کی طانب سے ایک جھو ٹی سی کشتی ھمیشہ تیار رھتی ہے ان بندرگاھوں میں جہاز سے آترنے کے وقت فاتجر به کار آدمی کو سخت مصیبت پیش آتی ہے ۔ جہاز کے لنگر کرنے کے ساتھہ تلی اور ملاح ھر طرف سے ٹوٹ پوٹے ھیں

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آور مسافروں کو سخت پریشان کرتے ھیں۔ ان کے ھجوم۔ شور رخل اور اسباب کی جھینا جھپٹی میں مسافر بالکل بد حواس ھو جاتا ھے۔ بہزار دقت کننارے پر پُہنچا تو گھنٹوں کرایہ کی بعث اور تکرار رھتی ھے۔ ان بلاؤں سے معفوظ کا عمدہ طریقہ یہ ہے کہ کُک کمپنی کے ملازموں کے سوا اور کسی سے کچھہ راسطہ نہ رکھ *

- 2. Give a brief description of either Cyprus or Cairo, according to Shibli.
- 3. Either, Describe the residential arrangements for the students in Constantinople.
- Or, Account for the restrictions imposed upon the liberty of the Press in Turkey.
- 1. How is اسم اعل fermed in Urdu? Illustrate with examples.
- 5. Name the مرون تشبیه used in Urdu and make one sentence with each.
 - 6. Translate into English :--

مطالعه کی عادت ابتدا سے آنہی رفیق رهی ۔ جس زمانه میں وہ فتھپور سیکری میں منصف تیے اُس وقت مولانا نبور العسن مرحوم آگرہ میں منصف تیے ۔ سر سید کی آنسے نہایت گہری درستی تهی مطالعه کے وقت کتاب کے مشکل مقامات جو سمجهه میں نه آئے تیے آنکے کے لئے هر اتوار کو وہ گہوڑے پر سوار هو کر فتھپور سے آگرہ میں مولانه کے پاس آگے تیے ۔ کئی برس تک بلا ناغه آنکا یہی دستور رها ۔ وہ کہتے تیے که میرا گھوڑا رستے سے ایسا آشفا هو گیا تہا که ایک بار آگرہ سے چھو تکر فتھپور ایچ تھان پر پہنچ گیا تھا *

7. Translate into Urdu one of the following passages :-

(a) The King of Persia ruled over many lands which were inhabited by many millions of people, and not only were rich in all that is needful for human life, but produced a great amount of gold and silver, and every other costly thing. Yet all this did not satisfy the mind of Xerxes, who at that time was ruler of this country. He could not bear to think that the Grecians, his neighbours, were free, and refused to obey his orders, which he foolishly thought all mankind should respect; he therefore made up his mind to lead a mighty army into Greece, and to conquer the country. For this purpose he raised such a vast army, that it is almost impossible to describe it; the number of men seemed enough to conquer the whole world, and all the

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forces the Grecians were able to raise would scarcely amount to a hundredth part.

(b) The Sultan entertained Aladdin at his palace, and at night. on the conclusion of the marriage ceremonies, the princess took leave of her father. She passed from the Sultan's palace to the new palace, by the flickering light of four hundred flaming torches, the sound of music and general rejoicing. Aladdin received her on the steps of his palace, and led her into a large hall, lit with a thousand wax candles, where a noble feast was served up. The princess, dazzled to see so many riches collected in one place, said to Aladdin, 'I thought, prince, that nothing in the world was so beautiful as my father's palace, but the sight of this hall alone shows me that I was wrong.'

HISTORY

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. ZAHIRUL ISLAM.

ZAHIRUL ISLAM.

FIRST PAPER.

HISTORY OF ENGLAND.

Candidates are required to give their answers in their own words as far as practicable.

Candidates are permitted to attempt only THREE questions from each group.

All questions are of equal value.

GROUP A.

1. Make a comparative estimate of the effects of Rome's political and religious supremacy in Britain.

2. Give an account of England's resistance to the Danish inroads. How did the Danish invasions promote the cause of English unity?

3. Make a comparative estimate of the contribution of the barons and the churchmen to the cause of English liberty in the days of the Plantagenets.

4. What achievements of Edward I entitle him to the epithet of 'Eng-

lish Justinian '? 5. Show how the character of Queen Elizabeth was reflected in her policy, both home and foreign.

GROUP B.

6. Say what you know of the great rebellion of 1642. Illustrate your answer by a sketch-map.

7. Trace the origin and growth of party government in England, in-

dicating its merits and demerits.

8. Institute a brief comparison between Chatham and the younger Pitt as War Ministers.

9. Give a short history of the Chartist movement. How far did the Chartists foreshadow the later parliamentary reforms?

10. Give a brief account of the colonial policy of England during the Victorian Age.

SECOND PAPER

HISTORY OF GREECE AND ROME

Candidates are required to give their answers in their own words as far as practicable.

Candidates are permitted to attempt only THREB questions from each group.

All questions are of equal value.

GROUP A.

- 1. Give a brief account of the Hemeric poems. What information can be gathered from them as to the political and social organization of the early Grecks?
- 2. Institute a comparison between Lycurgus and Solon as statesmen and lawgivers.
- 3. Explain the full significance of the Greek victories at Marathon and Salamis.
- 4. Trace the origin of ostracism at Athens. How far did this method serve the best interests of the Athenian democracy?
- 5. What justification is there for regarding Athens as the mistress of Hellas?

GROUP B.

- 6. Indicate the nature of the struggle between the plebeians and the patricians. How did it differ from the later conflict between the Optimates and Populares?
- 7. Estimate the influence of sea-power in Roman history.
 8. Review the character and career of Julius Caesar. Estimate the effect of his assassination on the fortunes of the Roman Republic.
- 9. Bring out the salient features in the character of the ancient Romans as illustrated by the careers of Cincinnatus, Coriolanus, Regulus,
- and C. Terentius Varro.

 10. Form an estimate of the services rendered by Diocletian to the Roman Empire.

Examiners-

LOGIC

Paper-Setters— { Prof. Jnanranjan Banerjea, M.A., B.L. Rai Bahadur Khagendranath Mitra, M.A. Dr. Adityanath Mukherjee, M.A., Ph.D.

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- ,, GOPINATH BHATTACHARYYA, M.A.

FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either. Distinguish between science and art is lagic a id science or an art? Discuss the question.

Or, Distinguish between the logical and the psychological treatment of thought.

- 2. Either, Distinguish between words and terms. Eryssir and illustrate the following:—
 - (a) Connectative and non-connotative terms.
 - (b) Absolute and relative terms.
 - (c) Contrary and contradictory terms.

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- Or, Define a proposition and distinguish it from a judgment. Classify propositions according to quantity and quality, and illustrate them by appropriate diagrams.
- 3. State the general rules relating to the distribution of terms in propositions. Point out the terms which are undistributed in the following propositions:—
 - (a) Books are generally useful.
 - (b) Every disease is not fatal.
 - (c) The earth moves round the sun.
- 4. Either, Give the rules of immediate inference (a) by contrary, and (b) by sub-contrary opposition. Test the following immediat: inferences:—
- (i) Sweet is agreeable; therefore bitter is disagreeable.
 (ii) A lawyer is a man; therefore a good lawyer is a good man.
- Or, Prove by means of the rule of sub-contrary opposition that contrary propositions cannot both be true.
- 5. Either, Prove that when the conclusion is universal, the middle term can be distributed but once
- Or, Briefly indicate the process by which the valid moods are determined. How is it that IE is not valid in any of the Figures whereas El is so in all of them?
- 6. Either, Explain the logical process of reduction. Is it 14 necessary? Reduce the mood Bramantip indirectly
- Or, Give the rules for testing the validity of conditional arguments. Define a dilemma, and illustrate its principal forms. Rebut the following dilemma:
- If a pupil is fond of learning, he needs no stimulus; and if he dislikes learning, no stimulus will be of any avail. He is either fond of learning or dislikes it. Therefore a stimulus is either needless or of no avail.
- 7. Reduce any four of the following arguments to their logical form, and test their validity, pointing out the fallacies, if any, involved in them:—
- (a) Everything is allowed by law which is morally right; indulgence in pleasures is allowed by law; therefore indulgence in pleasures is morally right.
- (b) All the works of Shakespeare cannot be read in a day; therefore the play of *Hamlet*, being one of the works of Shakespeare, cannot be read in a day.
- (c) He who calls you a man speaks truly; he who calls you a fool calls you a man; therefore he who calls you a fool speaks truly.
- (d) None but the honest can be trusted; therefore James is not honest, for he cannot be trusted.
- (e) If he says that he did not tell a lie, why, I ask, did he look abashed, as liars always do?
- (f) If all the accused were innocent, they would have been acquitted; we may infer then that none were innocent, since none have been acquitted.
- (g) Every hen comes out of an egg; every egg comes out of a hen; therefore every egg comes out of an egg.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either, What are the marks of inductive inference? How does induction differ from colligation of facts? Or, 'Induction is sometimes described as an inverse process of deduction.' Clearly explain and illustrate the statement.	14
2. Either, Explain observation and experiment. In what respects is experiment superior to observation? Or, What do you understand by elimination? Observation and experiment are aids to elimination.	14
Explain.	
3. Either, Enunciate and illustrate the method of difference. What advantage has this method over the method of agreement and what advantage has the latter over the former? Or, What do you understand by the experimental methods? Why are they so called? Indicate the uses of each.	14
4. Explain the relation between induction and legitimate hypothesis. When is an hypothesis said to be valid?	14
5. Either, Distinguish between popular and scientific explanation. Illustrate with concrete examples the different forms of the latter. Or, What is a Law of Nature? How does it differ from an empirical law? Explain the use for science of the discovery of empirical laws.	14
6. Explain the nature of scientific classification. Distinguish between classification by type and classification by definition.	14
7. Explain and illustrate the fallacies of non-observation and mal-observation.	10

ELEMENTS OF CIVICS.

Paper-Setters—

{ Mr. Durgagati Chattoraj, M.A. Prof. Satischandra Ray, M.A. Mr. Sudhansukumar Guhathakurta, M.A. M.A., D.Sc., Bar-at-Law.

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,, MANORANJAN BHATTACHARYYA.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer any six questions.

All questions are of equal value.

- 1. Define the terms-Law, Constitution, Right, State, and Government.
 - 2. Discuss the main obstacles to the exercise of good citizenship.
- 3. Give an idea of how administration is carried on in a mufassil municipality in Bengal.
 - 4. Indicate briefly the merits and demerits of popular government.
- 5. Indicate with explanatory notes the powers and duties of a district board, of a municipality, of a local board, and of a union board.
 - 6. Distinguish between a natural citizen and a naturalized citizen.
- Enumerate the civil rights of a citizen.
- 7. Differentiate between a minister and an executive councillor. Are they equal in status and pay?
- 8. What do you mean by dyarchy? What are the defects of such a system?
- 9. What do you mean by responsible government? Are the Governments of Bengal and of India instances of responsible government?
- 10. What steps would you suggest for the spread of primary education in Bengal?

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

All questions are of equal value.

- 1. If your village has no adequate milk-supply or proper water-supply, what should be your and your neighbours' duties as villagers?
 - 2. Distinguish between-
 - (a) value-in-use and value-in-exchange:
 - (b) fixed and circulating capital;
 - (c) productive and unproductive labour.
- 8. What are the principal causes of famines in India? Describe briefly the measures adopted for their prevention and relief.

 4. What do you understand by 'elasticity of demand'? Consider the
- elasticity of demand in the case of wheat, salt, watches, and furniture.
 - 5. Define capital and discuss its function in production.
- 6. Explain fully the organization of a rural co-operative credit society. What qualities are required in the villagers for its success?
- 7. 'The rich should be taxed proportionately more than the poor.' Why?
- Do all taxes obey this principle?

 8. What are, in your opinion, the main causes of middle-class unemployment in Bengal? Can you suggest any remedies?
- 9. Discuss critically the advantages and disadvantages of division of labour in modern industry.
- 10. What are the main drawbacks of agriculture in India? Suggest some important measures for its improvement.

COMMERCIAL GEOGRAPHY.

	DR. HARISCHANDRA SINHA, PH.D MR. MOHITKUMAR GHOSH, M.A. (Cal.), B.Com. (Lond.)
	B.Com. (Lond.). Dr. Nalinimohan Pal, Ph.D.

Examiners- { Mr. Hemantakumar Sen, M.A. Sachindranath Sengupta, M.A.

FIRST PAPER

FIRST PAPER.	
Candidates are required to give their answers in their own words as far as practicable.	
Answer Question 1 and any five of the rest.	
The figures in the margin indicate full marks.	
1. Didy a map of Linguista blooming the chief come	20° 1 6
3. What are the principal seats of shipbuilding in the United Kingdom, and what are the geographical advantages for the industry enjoyed by them? What geographical circumstances tended to deprive the Thames of the high rank it once held in this industry?	16
4. How do you account for	16
(a) the excess of imports over exports in the case of Great Britain; (b) the excess of exports over imports in the case of India?	
	6
6. Compare Scotland and England as regards (a) physical 1	6
The company and contract the party of the contract the co	6
America which lie within common latitudes. 8. State the situation and describe the reasons for the importance of any fire of the following: -(a) Bucnos Ayres, (b) Chicago, (c) Danzig, (d) Durban, (e) Hobart, (f) San Francisco, (g) Sydney, (h) Vancouver, and (i) Yokohama.	6

SECOND PAPER.

Candida'es are required to give their answers in their own words as far as practicable.

Answer Question 1 and any five of the rest.

The figures in the margin indicate full marks.

- 1. Draw a map of India and Burma showing railways, rivers, 20 and canals.
 - 2. Account for the variety in the distribution of rain-fall in India, 16

16

and show its effect on the chief products.

8. Describe fully the natural hindrances to communication in the peninsular portion of India, both internal and external, and state how they have been sought to be overcome.

16.

- 4. Compare the north-east and north-west of India proper in sespect of (a) physical features, (b) means of communication, (c) climate, (d) agricultural production, and (e) conditions affecting that production.
- 5. What are the monsoons? Describe briefly their effect on the conomic condition of India.
- 6. What are the necessary conditions for the successful cultivation of cotton? Describe carefully the regions where it is produced in India and the measures adopted for improving the quality and the quantity.
 - 7. Describe the forest resources of India and their importance. 16
- 8. Describe brie y India's trade with Japan. Do you know of 16 any recent measure likely to affect this trade?

COMMERCIAL ARITHMETIC AND BOOK-KEEPING.

Paper-Setters— { Mr. Satischandra Ghosh, M.A. ,, Narendrakumar Majumdar, M.A. ,, Narendranath Sarkar, M.A.

Examiners- { Dr. Surendramohan Ganguli, D.Sc. Mr. Narendranath Sarkar, M.A.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Any Eight out of the following twelve questions may be attempted.

All questions are of equal value.

1. If T per cent, be the rate of profit on the turnover and P per cent.

that on the cost of production, slow that $\uparrow = \frac{100 \ P}{100 + P}$.

Hence show that a profit of 25 per cent, on the cost of production is equivalent to a profit of 20 per cent, on the turnover.

- 2. A man in business loses in his first year 5 per cent. of his capital, but in the second year he gains 6 per cent. of what he had at the end of the first year, and his capital is now Rs. 350 more than at the commencument. Find his original capital.
- 3. A man, trying to forecast the result of an election thought that there would be eight Swarajists to every Liberal, and that the numbers of Swarajists and Independents would be as twelve to seven (assuming there are only these three parties in the election). If the result had come out like this, the anti-Independent majority would have exceeded by twenty-four the clear Swarajist majority. How many Swarajists would there have been?
- 4. A property changed hands three times, each agent who sold it charging 1 per cent, as commission. If each time it was sold for the net amount obtained at the previous sale, calculate to the nearest rupee its original value if the third sale realized Rs. 1,00,000 net.
- 5. A motor is following a cyclist along a road which runs by the side of a railway. The motor is going at 25 miles per hour and the cyclist at 10 miles per hour. A train completely passes the motor in 5 seconds, and

afterwards completely passes the cyclist in 2 seconds, the interval between the time when the train is clear of the motor and the time when it is clear of the cyclist being 32 seconds. How far ahead will the train be when the motor overtakes the cyclist?

- 6. A school with 78 boys and 72 girls on the books meets 432 times in the year. If each boy loses one meeting in 9, and each girl one in 8, find the average attendance of each sex for the year.
- 7. In the winding up of a company, the following payments are 'preferential,' that is to say, they must first be paid out of the available assets before the other creditors receive any payment:—
- (a) All revenue, taxes, cesses, and rates, whether payable to the Crown or to a local authority, due from the company at the date of commencement of the winding up and having become due and payable within twelve months next before that date.

(b) All wages or salary of any clerk or servant in respect of service rendered to the company within the two months next before the said date,

not exceeding one thousand rupecs for each clerk or servant.

(c) All wages of any labourer or workman not exceeding five hundred rupees for each, whether payable for time- or piece-work, in respect of services rendered to the company within the two months next preceding that date.

The realized value of the assets of a company in liquidation amounts to Rs. 2,00,000. The creditors, amounting to Rs. 4,12,000 include—

(i) Cesses and rates payable to the Calcutta Corporation Rs. 2,000.

(ii) Salary for three months to five clerks at the rate of Rs. 550

each per month.

(iii) Wages to ten foremen for the last three months at the rate of Rs. 300 each per month.

Find the amount received by-

- (1) The Calcutta Corporation.
- (2) Each clerk.
- (3) Each foreman.
- (4) Each of the other creditors.
- 8. Find the average due date for the following payments:—Rs. 500 payable on 1st January; Rs. 1,500 payable on 18th January; Rs. 700 payable on 11th March; Rs. 1,100 payable on 3rd May; Rs. 1,800 payable on 30th June.

9. A man has Rs. 6,680 stock in the 4 per cents. at 98. When the stock has fallen 2 per cent. he transfers his capital to the 3½ per cents. at

831. Find the alteration of his income to the nearest anna.

10. The electric resistance of a wire of given material is directly proportional to its length and inversely proportional to the square of the diameter of its circular cross-section. Calculate the length and diameter of a wire which is to have double the resistance, but only one-third the weight, of a wire of the same material 53 feet long and 0.024 inch diameter.

11. A man borrows Rs. 1,000 on the understanding that it is to be paid back with interest in four equal instalments at intervals of six months, the first payment to be made six months after the money was borrowed. Calculate the amount of each instalment, reckoning compound

interest at 21 per cent. per half-year.

12. A manufacturer has priced certain pieces of furniture. The largest sells at Rs. 200 and the smallest at Rs. 90. He wishes to alter the prices so that the largest will sell at Rs. 260 and the smallest at Rs. 60. Assuming that the new price P and the old price Q are connected by the relation P=a+bQ, find the new prices of the pieces of furniture valued at Rs. 125 Rs. 150, and Rs. 175.

COMMERCIAL ARITHMETIC AND ELEMENTS OF BOOK-KEEPING.

SECOND PAPER

Candidates are required to give their answers in their own words

as far as practicable.

Any eight out of the following twelve questions may be attempted.

All questions are of equal value.

I'. Distinguish between-

- (a) Floating charge on Assets and Charge on Floating Assets;
- (b) Income and Expenditure Account and Receipts and Payments Account;
 - (c) Bill and Receipt:
 - (d) Gross Profit and Net Profit.
- 2. What do you understand by a 'Three Columned Cash Book'? Give a ruling for one with some imaginary specimen entries.
- 3. What is the function of a Balance Sheet? What is your idea about a 'Balance Sheet prepared on the Cash basis?' Do you find any fault with the term? Explain carefully,
- 4 What is an Account Current? Give an illustration with imaginary figures and containing at least four items on the debit side and an equal number on the credit side.

In some Bank Pass Books your account appears as 'X in Account Current with Alpha Bank, Ltd.,' and in others as 'Beta Bank Ltd., in Account Current with X.' Explain each method of writing the account.

- 5. Pass suitable Journal entries for the following:-
- (a) Interest on Current Account with Lloyds Bank, Rs. 18'5, has not been brought into account. Do this.
 - (b) Rs. 500/- is to be written off Sundry debtors.
- (c) A and B are in partnership sharing profits and losses in the ratio of 1:2. It is decided to introduce Goodwill and Rs. 30,000 is to be debited to this account. Do this.
- (d) Fire insurance premium at the rate of Rs. 900 a year has been
- paid in advance for five months. Make the necessary adjustment.

 (e) Establishment charges to the extent of Rs. 3,000 remain unpaid at the date of closing.
- 6. A started in business with a capital of Rs. 20,000. His subsequent transactions for a year were as follows:—

Purchases Rs. 12,000, of which goods worth Rs. 2,300 were returned; sales Rs. 10,700, of which goods worth Rs. 1,200 were returned by customers; carriage inwards Rs. 200 and outwards Rs. 170; salaries to staff Rs. 750; rent & rates Rs. 800; discount received on purchases at 5 per cent. The value of stock in hand at the close of the year was Rs. 3,000. Prepare a Trading and Profit & Loss Account based on the above data.

7. In a certain manufacture the costs were as follows:-

Raw Materials	•••	•••	•••	Rs. 23.000
Wages		•••	•••	,, 25,000
Other Expenses	•••	•••	•••	,, 27 ,0 0 0

5.000 units of the commodity were manufactured which sold for R4. 100,000.

During a subsequent period, cost of raw materials increased by 5 per cent., wages by 50 per cent., other expenses by 10 per cent. Find

the price at which 1,000 units of the commodity must be sold now to yield the same rate of profit on the rost of production as in the previous case.

8. On 31 December, 1929, the Balance Sheet of A stood as follows:-

			Rs.				Rs.
Sundry	Creditors		35,000	A FraT	Building		59 000
Loans			60 000	Furniture	•		15,000
Capital			95,000	Plant &	Machinery	•••	40,000
•				Sundry Debtors			65,000
		1	000,00	Cash	•••	•••	18,000
							190,000

B agrees to take up the business of A on the following terms:—

(a) Sundry Creditors & Loans are to be taken at their book values.
(b) Land and Building is to be taken at Rs. 60,000; Furniture is to be taken at the book value: Plant & Machinery is to be taken at Rs. 45,000; Rs. 5,000 is to be written off the Sundry Debtors.

(c) Rs 100,000 is to be paid to A as the purchase consideration. Assuring that B brings in cash Rs. 1,00,000 to pay off the purchase

consideration, draft the initial Balance Sheet of B.

9. A, B and C are partners sharing profits and losses in the ratio of 3:2:1, and their capitals are Rs. 10,000, Rs. 5.000, and Rs. 3,000 respectively.

On 31 December, 1929, the partner-hip is dissolved. Assets are to be realized gradually, but it is decided that, the net realization for every month is to be distributed amongst the partners at the end of the month. Part of the assets were realized in January, 1930, which, after payment of all liabilities, left a balance of Rs. 3,000. Show what each partner will get.

10. Explain the difference between a Trading Account and a Profit & Loss Account.

Which of the following items belong to the former and which to the latter accunt:—(a) Carriage Outward; (b) Carriage Inward (c) Wages; (d) Salary of Sales Manager; (e) Advertisement; (f) Insurance; (g) Discount Allowed: (h) Returns Outward?

11. The following balances have been extracted from the books of a firm at 31 De ember, 1929:—

Capital Accounts: Senior Partner Rs. 12,009, Junior Partner Rs. 7,000; Current Accounts: Senior Partner Rs. 754 (Cr.), Junior Partner Rs. 72 (Dr.); Drawings: Sonior Partner Rs. 1,264, Junior Partner Rs. 875; Wages (Workshop) Rs. 4,268; Trade Expenses (Workshop) Rs. 1,374; Office salaries Rs. 1,843; Insurance: Workshop Rs. 449, Office Rs. 26; Rent & Taxes: Workshop Rs. 1,256, Office Rs. 226; Fan & Light: Workshop Rs. 374, Office Rs. 62; Advertising Rs. 2,670; Purchases Rs. 36.343 and Returns Rs. 721: Sales R., 58,194 and Returns Rs. 342; Carriage Inwards Rs. 215; Carriage Outwards Rs. 319; Discount Rs. 72 (Cr.); Travellers' Salaries & Commission Rs. 3,764; Sundry Creditors Rs. 4,282; Sundry Debtors Rs. 6,842; Bank Overdraft Rs. 802; Cash in hand Rs. 133; Workshop Plant & Fixtures Rs. 1,860; Office Furniture Rs. 650; Motor Vans Rs. 1,524; Bad Debts Reserve (31.12.28) Rs. 400; Stock (31.12.28) Rs. 17,875.

Prepare a Trial Balance.

12. Assuming that the value of the stock in hard as on 31 December, 1929. is Rs. 20,000, prepare a Trading and Profit & Less Account on the basis of the figures in Question 11 above.

I.A. and I.Sc. Examinations.

1931

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FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Either. Solve
$$x + y = a + b$$
, $\frac{a}{x} + \frac{b}{y} = 2$.

If α and β be roots of $x^2 + px + q = 0$, show that $\frac{\alpha}{\beta}$ is a root of the equation

$$qx^2 - (p^2 - 2q)x + q = 0.$$

6

6

6

6

6

8

Or, If x vary as y, when z is constant, and x vary as z, when y is constant, show that x varies as yz, when both y and z are variable.

Two globes of gold have their radii equal to r and r'; they are melted and formed into a single globe. Find its radius. (The volume of a globe varies as the cube of the radius.)

2 Find the number of permutations of n things, taken all at a time, when p of them are exactly alike of one kind, q of them exactly alike of a different kind, and the rest all different.

Out of 9 Swarajists and 5 Ministerialists, how many different committees can be formed, each conjisting of 6 Swarajists and 3 Ministerialists?

3. Either, Obtain the term free from x in the expansion of

$$\left(x+\frac{1}{x}\right)^{2n}$$
.

If $y=2x+x^2+4x^3+...$ express x in a series of ascending powers of y, up to the third power.

Or Wri e down the expansion of e^x and $\log_x(1+x)$ in ascending powers of x.

If
$$y = x - \frac{x^2}{2} + \frac{x^3}{3}$$
 , show that $x = y + \frac{y^3}{|2|} + \frac{y^3}{|3|} + \dots$

4. Prove that

$$\sin (A - B) = \sin A \cos B - \cos A \sin B$$

where A and B are positive acute an les, and 1 is greater than B.

Express sin 2 A and cos 2 A in terms of tan A.

5. Either, In any triangle, prove that

$$\tan \frac{B-C}{2} = \frac{b-c}{b+c} \cot \frac{A}{2}.$$

In a triangle, if

$$b=2.25$$
, $c=1.75$, $A=54^{\circ}$,

find B and C, laving given

$$\log 2 = 0.3 \cdot 1^{\circ} 0$$
, $L \cot 27^{\circ} = 10^{\circ} 292834$,

$$L \tan 13^{\circ} 47' = 9.399724$$
, $L \tan 13^{\circ} 48' = 9.390270$.

Or, Draw the graph of y = co x, rom x = -1 0° to x = +180°, tabulaing at intervals of 10°. (Mathematical tables may be used.)

I.A. AND I.So. EXAMINATIONS	245			
6. In a parabola, prove that the subtangent is bisected at the vertex.	6			
Prove that the locus of the foot of the perpendicular, drawn from the focus upon a tangent to a parabola, is the tangent at the vertex.				
7. Either, In an ellipse, prove that	10			
$PN^{\circ}:AN \cdot A'N = CB^{\circ}:CA^{\bullet}.$				
Prove that the greatest value of PN is CB.	4			
Or, In an ellipse, prove that the locus of middle points of a system of parallel chords is a straight line passing through the centre.	7.0			
Show that the line joining the points of contact of two parallel tangents to an ellipse passes through the centre.	4			
8. Either, Of all straight lines drawn from an external point to a plane, the perpendicular is the shortest; of obliques drawn from the given point, those which cut the plane at equal distances from the foot of the perpendicular are equal.	6			
Show that the angle made by an oblique to a plane with its projection is less than that which it makes with any other line meeting it in that plane.	6			
Or, If a straight line outside a given plane is parallel to any straight line drawn in the plane, it is parallel to the plane itself.				
Show that, through a given point P , a plane may be constructed parallel to each of two lines AB and CD , which do not lie in the same plane.	6			

SECOND PAPER

Candidates are required to give their answers in their own words
as far as practicable.

Not more than seven questions are to be attempted.

Two marks are reserved for neatness.

The figures in the margin indicate full marks.

the pigures in the margin inacate full marks.	
1. Define uniform speed and uniform velocity, and distinguish between them, giving illustrations, one of each.	7
A body moves in a straight line AB , and its distance from A after t seconds is s feet. If A is fixed, and s and t are connected by the relation	7
s = 13.35 + 44t	
find the velocity of the body per hour.	
2. State Newton's second law of motion, and deduce the formula	7

P = mf.

A particle moves through 80 feet in four seconds, from rest, under a uniform force of 45 poundals. Find its mass.

7

3. State and prove the parallelogram of velocities.

A boat is rowed at right angles to the course of a river twice as fast as the river flows. It meets the opposite shore 1½ miles below the starting-point. What is the breadth of the river?

4. Prove that the path of a projectile in vacuo is a parabola.	7
Particles are projected from a given point with velocities of the same magnitude in different directions on a vertical plane. Prove that at any particular instant they will lie on a circle.	7
5. Define Work. Find the work done in dragging a mass m up a smooth inclined plane to a height h against gravity.	7
Show that if a mass m is allowed to slide from rest, down a smooth inclined plane, the sum of the potential and kinetic energies at every instant is the same.	7
6. A smooth sphere of mass m , whose co-efficient of restitution is e , impinges obliquely on a fixed smooth plane.	14
Find (i) the direction and magnitude of the velocity after impact, and (ii) the impulse of the action of the plane.	
7. Enunciate and prove the triangle of forces.	7
Three forces, each of magnitude P, act along the sides BC. CA, AB of an equilateral triangle. Find the resultant.	7
8. Find the resultant of two, equal and like parallel forces acting on a rigid body.	7
One end of a heavy straight uniform rod rests on a smooth horizontal table, while the other end is above the table and is attached to one extremity of a light inextensible string passing over a smooth pulley and supporting a weight W at the other extremity. Draw a neat diagram indicating a position of equilibrium of the system when the rod is not vertical, and find the weight of the rod.	7
9. Find the centre of gravity of three particles of equal mass, placed at the angular points of a triangle, and deduce from this the fact that the three medians of a triangle have a common point.	7
If the centre of gravity of three particles placed at the angular points of a triangle coincide with the common point of the three medians, show that the three particles are of equal mass.	7
10. State the laws of friction.	4
A weight P rests on a rough inclined plane and is just on the point of slipping down. On applying a force P parallel to the plane, upwards, the weight is just on the point of moving up. Find the coefficient of friction and the angle of the plane.	10
11. Define a couple. Prove that the resultant of a couple and a force is a force.	7
Show that a system of coplanar forces, which is not in equili- brium, is reducible to a single force or a couple.	7
12. Describe the first system of pulleys with a neat diagram and calculate its mechanical advantage. (The weights of the pulleys may be neglected.)	14
13. Prove that the algebraic sum of the moments of two forces about a point in their plane is equal to the moment of their resultant. (The lines of action of the forces are supposed to meet.)	7
Two forces act on a body, which can move round a fixed point, and the body remains at rest. Show that the moments of the forces round the point are of equal magnitude.	7

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FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value. Attempt not more than six questions, of which at least Two must be from each of the GROUPS A and B and ONE from GROUP C.

GROUP A.

- 1. State where a body weighs the more—at the Poles or at the Equator. Give reasons. How do you prove his difference in weight experimentally?
- State and prove Boyle's Law, taking the necessary precautions.

 A tube six feet in length closed at one end is half filled with mercury and is then inverted with its coon end just dipping into a mercury trough. If the barometer stands at 30 inches, what will be the height of the mercury inside the tube?
- 8. Explain how you would determine the specific gravity of a solid by a specific gravity bottle.

- 60.3 gm. have to be placed on the pan of a hydrometer to sink it to the mark in water and 6.8 gm. only in alcohol. If the hydrometer weighs 200 gm., what is the specific gravity of alcohol?
- 4. State Pas al's Law regarding the transmission of pressure in a liquid and describe a suitable experiment to verify it in the laboratory.

At what depth below the surface of water will the pressure be equal to two atmospheres if the atmospheric pressure is 1 megadyne (105 dynes) per sq. cm.?

 $(g = 981 \text{ cm./sec.}^2)$

GROUP B.

5. Define the co-efficient of cubi al expansion of a solid. Does it differ when the lengths are measured in centime res or feet?

Describe briefly an experiment f r determining the co-efficient of expansion of a solid.

A clock which keeps correct time at 25° C, has a pendulum rod made of brass. How many seconds will it gain per day when the temperature falls to the freezing-point? (Co-efficient of linear expansion of brass is 0.000019).

- 6. Briefly explain the following:-
 - (a) Why is it easier to float in sea water than in fresh water?
 - (b) Why do two bits of ice when pressed together form one mass?
 - (c) How are echoes produced?
- (d) When a piece of iron wire gauze is held over a flame, the flame does not rise above it. Why?
 - (e) Why does wa er boil at a lower temperature on the top of a hill?
- 7. Explain clearly the meaning of the statements that 'the specific heat of ice is 0.5,' 'the latent heat of water is 80.'

Find the result of mixing 2 lb. of ice at 0° C. with 3 lb. of water at 45° C.

Describe any method of determining the latent heat of steam in the laboratory.

8 What are the different methods for the transmission of heat from point to point? Clearly explain their difference with suitable examples.

GROUP C.

9. What are stationary waves?

Give an account of the nodes and antinodes formed in open aud closed pipes.

Two open pipes are sounded together, each note consisting of its fundamental together with two upper harmonics. One fundamental note has 256 vibrations per second, the other 170. Would there be any beats produced? If so, how many per second?

10. Distinguish between pitch, quality, and loudness. What characteristics of vibration determine the pitch and loudness of a musical note?

A body vibrating with a constant frequency sends waves 10 cm. long through a medium A and 15 cm. long through another medium B. The velocity of the waves in A is 90 cm. Find the velocity in B.

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value. Attempt SIX questions, of which at least TWO must be from each of the GROUPS A and C and ONE from GROUP B.

GROUP A.

- 1. What is the 'intensity of illumination' of a surface? Prove that it varies inversely as the square of the distance from the source of light.

 A standard candle and a gas flame are placed 6 ft. apart, the gas flame being of 4 candle-power. Where must a screen be placed on the line ioining the candle and gas-flame so that it may be equally illuminated by each of them?
- 2. ()btain a formula connecting together the positions of an object and its image formed—real or virtual—by direct refraction through a convex lens.

 If an observer's eye be held close to a convex lens of 3 cm. focal

length to view an object at a distance of 2.5 cm. from the lens, show that the magnifying power is 6. Illustrate your answer by a neat diagram.

2. Describe a telescope. Explain by means of a neat diagram how the magnification is produced.

In what way is an opera-glass different from an astronomical

telescope?

4. What is a spectrum? What apparatus do you require and how would you arrange it to produce a pure spectrum? Give a figure showing

the path of the rays.

Discuss in general terms the spectrum produced by the following:—
(a) when the sun is used as a source of light, (b) when the light is produced by an in andescent solid, (c) when the flame of a Bunsen burner is coloured by sodium salt.

GROUP B.

- 5. What do you mean by the potential of a conductor? A conductor of capacity 75 is charged to potential 20, and is then made to share its charge with a second conductor of capacity 25. What will be the final charge and potential of each?
- 6. Define a unit magnetic pole. How would you experimentally determine the pole of a magnet?

Explain what you mean by the following:—
(a) The earth's horizontal intensity at Calcutta is equal to 0.85
C.G.S. units.

(b) The declination of a place is 30° E.

(c) The inclination is 25°.

GROUP C.

7. Describe the construction and action of a tangent galvanometer.

Explain clearly how a tangent galvanometer can be converted into
a sine galvanometer.

8. Describe a Leclanché cell and explain its action.

A galvanometer of 45 ohms resistance is shunted by a shunt of 5 ohms.

Find the equivalent resistance and the current flowing through the galvanometer when a difference of potential of 22.5 volts is maintained between the terminals.

9. State Joule's Law regarding the development of heat in an electrical-

circuit. Describe an experiment to verify it.

A conductor carrying a current divides into two branches whose resistances are in the ratio of 4 to 5. Compare the amounts of heat generated in the branches.

10. Give a brief account of the principal phenomena of electro-magnetis induction.

Describe the construction and action of an induction coil, drawing a neat diagram.

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FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt six questions only, of which Question 5 is compulsory.

The questions are of equal value.

1. What do you understand by the law of definite proportions? How would you prove it? A metal is found to give two oxides; on heating one

gram of each in a current of hydrogen, 0.798 and 0.888 grams of the metal were obtained respectively. Show that the results are in agreement with the law of multiple proportions.

2. Explain with illustrations what you understand by the following:
(a) dissociation, (b) catalysis, (c) hardness of water, (d) dialysis, (c) electro-

chemi al equivalent

3. What is the most important source of phosphorus? How is phosphorus obtained from this source? Mention the chief properties and uses of phosphorus.

4. What happens when hot and cold nitric acid of different strengtus

acts upon the following: -zinc, copper, tin, and mercury?

5. 1.524 grams of ammonium chloride were dissolved in water, and 50 c.c. of normal potassium hydroxide solution were added to it. The total solution was boiled till ammonia ceased to be evolved, and was then neutralized with 30.95 c.c. of normal sulphuric acid solution. Calculate the percentage of ammonia in the sample of ammonium chloride.

6. Give an account of the extra tion of aluminium from its ores.

Describe the propert es and uses of this metal.

7. Give the chemical name and formula of each of the following substances:—(a) alum, (b) borax, (c) water glass. How are they prepared, and what are their uses?

8. What do you understand by the terms 'reducing' and 'oxidizing' agents? Give illustrations with equations.

SECOND PAPER

Attempt six questions only, of which Question 5 is compulsory.

The questions are of equal value.

- 1. Establish the relation between (a) the temperature, pressure, and volume of a gas. (b) the dentity and molecular weight of a gas.
- 2. Describe Moissan's method for the preparation of fluorine. Compare the properties of fluorine with those of the other halogens.
- 3. By what experiments would you prove that (a) a silver coincontains silver and copper, and (b) brass contains zinc and copper? Describe a method by which you could obtain pure silver from a silver coin.
- 4. Describe the preparation, properties, and uses of hydrogen peroxide. How is it detected?
- 5 A specimen of limestone contains 60 per cent. of calcium carbonate Calculate the amount of stone which will be required to generate just sufficient quantity of carbon diox de to convert completely one litre of a normal solution of caustic soda into carbonate.

$$[Ca = 40, Na = 23.]$$

- 6. Explain with equations the reactions taking place in the following cases:--
 - (a) Aluminium is heated with caustic soda solution.
- (b) An electric current is passed through copper sulphate solution between copper electrodes.

(c) An electric current is pasted through sodium chloride solution.

between carbon electrodes.

(d) Chlorine is passed through milk of lime.

(e) Potassium chlorate is treated with strong hydrochloric acid.

7. Describe the method of manufacturing pig-iron from an iron ore. Give sketches where necessary. What is the difference between pig-iron,

steel, and wrought iron?

8. Describe what happens when sulphuretted hydrogen is passed into solutions of (a) caustic potash, (b) stannic chloride, (c) nitric acid, and (d) sulphurous acid

PHYSIOLOGY

(SIR NILRATAN SIRCAR, KT., M.A., M.D.,

Examiners— { Mr. Saurindramohan Banerjee, M.Sc., M.B. Parimalbikas Sen. M.Sc.

FIRST PARKE

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

All questions carry equal marks.

1. Describe the chemical and physical properties of protoplasm.

2. Describe the histological structure of hyaline cartilage. Give diagram.

- Mention the general properties of the blood.
 Describe the course of the circulation of the blood.
 Describe the structure of the arm considered as a mechanical appliance.
- 6. Define—(a) tidal air, (b) vital capacity, (c) tissue respiration. and (d) asphyxia.

7. What are the evils of over-eating?

8. Describe the action of gastric juice.

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any six questions.

All questions carry equal marks.

1. What is the composition of bile?

- What are the functions of the small intestine?
- What is the composition of urine? Describe the sources of animal heat.

- 5. Mention the cranial nerves, indicating briefly the function of each.
- 6. What are the effects which follow the section of the posterior nerve root between the cord and the ganglion?
 - 7. Describe the phenomenon of visual accommodation.8. What are short sight and long sight?

BOTANY

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MR. ATULCHANDRA DATTA. M.Sc.

FIRST PAPER

Candidates are required to give their answers in their own words

- as far as practicable. Answer any FIVE of the questions. The figures in the margin indicate full marks. 1. Describe the modified forms of stem for vegetative propagation. Give an example in each case with neat sketches. 2. What is a sporophyll? Describe the nature and arrangement 20 of the sporophylls of Equisetum. Give neat sketches. 3. What is chlorophyll? What is its work? How can you 20 demonstrate the influence of light on the function of chlorophyll? 4. How would you recognize plants belonging to the Natural 20 Order Malvaceae? 5. What are hypogynous, perigynous, and epigynous flowers? 20 Give one example of each, with neat sketches. 20
- 6. Describe the process of formation of Bark in a dicotyledonous
- plant. Give neat sketches.
 7. Explain the breathing process of plants. Why is it unwhole-20 some to keep plants in rooms in which we sleep?

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE of the questions.

The figures in the margin indicate full marks.

1. Explain fully how a plant gets rid of its surplus water.	20
2. What are the chemical elements found in the plant-body?	20
How do the plants obtain them?	
3. How does a Root-hair differ from a Rootlet structurally and	20
physiologically?	
4. Describe fully, with neat sketches, the life-history of Mucor.	20
4. Describe fully, with neat sketches, the life-history of Mucor.	20
Labiatae, and give an example.	
6. State the general principles of classification of plants.	20
7. What is an inflorescence? Describe the various types of	20
inflorescences.	

GEOGRAPHY

Paper-Setters—

{ Mr. Saratchandra Majumdar, M.A., F.R.G.S. ... Ilemchandra Dasgupta, M.A., F.G.S. ,, J. M. Bottomley, M.A.

Examiners— { Mr. Kumudchandra Raychaudhuri, M.A. Nirmalnath Chattopadhyay, M.Sc.

FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only six questions are to be attempted. Question 1 is obligatory.

The figures in the margin indicate full marks.	
1. Discuss the different ways in which mountains are formed and	20
illustrate your answer with Indian examples.	
2. Explain the following terms:—isobar, isotherm, cyclone and	16
anticyclone.	
Why is it that an anticyclone generally brings dry cooler weather	
and a cyclone rain?	
3. What is an earthquake, and how is it caused?	16
Why is it that earthquakes in many cases originate along a few	
well-defined lines on the earth's surface? Where roughly are these	
lines? How are records kept of earthquakes in a meteorological office?	
4. Draw a diagram showing the wind-system of the world. Does	16

your answer. 5. What are the causes that determine the rainfall of an area? How is it measured? Why have some places more rainfall than others at different times of the year? Illustrate your answer with examples

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any modification of the wind-system take place? Give reasons for

from Africa.

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6. Give an account of the activity of a river from its source to its mouth.

7. What do you know of the 'Challenger' expediton?

Give an account of the marine deposits and explain how they may be classified.

8. Give an account of the different faunal realms into which the earth has been divided and state the characteristic features of each.

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only six questions are to be attempted. Question 1 is obligatory.

The figures in the margin indicate full marks.

- 1. What are the principal difficulties confronting the explorers in the Himalayas and why are these difficulties greater here than in other countrie:? Illustrate your answer by anything you know of the recent expeditions to Mount Everest and Kinchiniunga.
- 2 Give a short description of the chief railway systems of India. What are the principal commodities which they carry? What are the ports to which they carry these commodities, and to what parts of the world are they shipped?
- 3. What are the chief producing regions for the following:— 16 (a) rice, (b) rubber, (c) wheat, (d) tea, and (e) oil?
- 4. What are the principal trade routes crossing the land boundaries of India? Where do they lead, and what traffic do they carry?
- 5. Describe the different methods of map projection and state the advantages as well as the disadvantages of these methods.
- 6. Draw a map of Australia and divide it into natural economic regions and give full reasons for the division you adopt.
- 7. Draw a map of Europe and indicate on it the boundaries of the different countries as they were recognized before the great European war and as they are recognized now.
- 8. Write short notes on the following:—Alaska, the Barbary States, Brazil, the lakes of North America, the industries of Japan, the political divisions of the Chinese Empire. the States of Indo-China under the British control, and the manufacturing centres of Germany.

B. A. Examination,

1931

ENGLISH

Paper-Setters—	MR. MAHMUD HASSAN, B.A. (Oxon.). DR. HARENDRACOOMAR MOOKERJEE, M.A., PH.D PROF. JAYGOPAL BANERJEE, M.A. MR. NIRMALKUMAR SIDDHANTA, M.A. (Cal.), B.A. (Cantab.). ,, P. E. DUSTOOR, M.A. RAI SATYENDRANATH BHADRA, BAHADUR, M.A.
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FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Either, Can you discover any law by which the clash of good 18 and evil in Macbeth may be shown to be regulated?
- Or, Show that it is less often wickedness than weakness that breaks the hearts of modern tragedy.
 - 2. Examine one of the following critical remarks:— 15
- (a) The Tempest is one of the most original and perfect of Shakespeare's productions.
- (b) No play, perhaps, more perfectly combines intellectual satisfaction with imagination than The Tempest.
- 3. Either, 'Where comedy uses surprise tragedy uses suspense 15and irony in the exposition of the plot.'

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Discuss this, with special reference to Macbeth and The Tempest. Or, What is your impression, from the two plays prescribed, regarding the relation between the drama and the theatre in Shakespeare's time?

4. Either, Is it possible to divide by means of tendencies or characteristics the poets included in Binyon's Golden Treasury into well-defined groups?

- Ut, How far is the temper of the Victorian age reflected in Clough, Samuel Butler, and T. E. Brown?
- o. Show by a critical analysis to what extent any two of the rollowing poems represent the genius or art of their author:—(a) The Buntsmen's Chorus, (b) Thyrsis, (c) The Portrait, and (d) The Laboratory.
- 5. Explain, with reference to the context, any two of the following extracts, noticing peculiarities, if any, of thought or style:—
 - How he solicits heaven,
 Himself best knows: but strangely-visited people,
 All swoln and ulcerous, pitiful to the eye,
 The mere despair of surgery, he cures,
 Hanging a golden stamp about their necks.
 Put on with holy prayers: and 'tis spoken,
 To the succeeding royalty he leaves
 The healing benediction.
 - He being thus lorded,
 Not only with what my revenue yielded,
 But what my power might else exact, like one
 Who having unto truth, by telling of it,
 Made such a sinner of his memory
 To credit his own lie, he did believe
 He was indeed the duke.
 - (c) Soaring through wider zones that pricked his scars
 With memory of the old revolt from Awe,
 He reached a middle height, and at the stars,
 Which are the brain of heaven, he looked and sank.
 Around the ancient track marched, rank on rank,
 The army of unalterable law.
 - (d) There to me thro' all the groves of olive in the summer glow,
 There beneath the Roman rum where the purple flowers grow,
 Came that 'Ave atque Vale' of the poet's hopeless woe,
 Tenderest of Roman poets nineteen hundred years ago.

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Discuss one of the following quotations, illustrating your answer by references to your text:—
- (a) 'Burke is probably the only British politician whose speeches and pamphle's made for immediate results have given him immortality.'
- (b) 'We are taken captive not so much by his reasoning, strongly as that moves to its conquest, as by the generous warmth that steals out of him. There is a tonic breath of generous warmth in what he writes—the fine sentiment of a pure man.'

2. Explain any two of the following aphorisms of Burke, and state 16 his application of them :-

(a) Liberty is a general principle.

(b) We are not disarmed by being disencumbered of our passions.

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- (c) This moral levelling is a servile principle.
- Either, Examine the following statement and its bearing on Matthew Arnold's essay on Marcus Aurelius :- 'Matthew Arnold was a heathen and he knew the heathen. He was more at home among the heathen than in Christian society. He knew the heathen better than the Christian, and having more affection for him knew his difficulties better than the Christian.'
- Or, Amplify the following, pointing out the extent to which it is true of Carlyle's essay on History:— The great merit of Carlyle as a writer and the great pleasure which his writings give, arise from their suggestive character. He is always furnishing hints for thought.'
- Explain, with reference to the context, anv two of following :-
- (a) What a difference there is between the minute and finished delicacy of Rydal Water and the rough simplicity of Loch Katrine!... And this is wise, for there is beauty in the North as well as in the South.
- (b) Is the tongue of the Hottentot or Esquimaux to be made the measure of the genius of Plato, Pindar, Tacitus, St. Jerome, Dante, or Cervantes?

(c) These were the dragons of the garden but for such joys of paradise we could have faced the Terror of Jamaica himself.

- Pain's 5. Either, Compare and contrast Samuel Pell (Barry Model Man) and Aristide Pujol (W. J. Locke's The Adventure of the Kind Mr. Smith). Do they obtain the sympathy of the reader? If so, what is the explanation? Do you agree with the opinion that they succeed principally on account of the smaller rogues with whom they come in contact? Give reasons for your answer.

 Or, Write an appreciation of E. M. Forster's Celestial Omnibus as a short story. What do you conceive to be its central idea? Can
- you explain why things invisible to Mr. Bous, who described himself as a lover of Poetry and Art, were visible to the little boy?
- 6. Either, A great critic has observed that 'the English Bible has had a large share in determining our very conception of literary style.

Is this true of the Epistles, and if so, to what extent? Or, 'The Epistle of St. James is a miscellary of Christian wisdom.

Expand and justify.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Write an essay on one of the following subjects:

(a) The influence of English literature on Indian literary and social ideals.

(b) The life and literature of Elizabethan England.

(c) Revolutions are never made, they happen.

- (d) The industrial development in India; its possibilities and its limitations.
- (e) He that observe h the wind shall not sow; and he that regardeth the clouds shall not reap.

(f) True wit is Nature to advantage dressed

What oft was thought but ne'er so well expressed.

(g) They are slaves who dare not be In the right with two or three.

- 2. Give the substance of one of the following poems:-
- (a) Let me not to the marriage of true minds
 Admit impediments. Love is not love
 Which alters when it alteration finds,
 Or bends with the remover to remove:
 (1), no! it is an ever-fixed mark
 That looks on tempests and is never shaken;
 It is the star to every wand'ring bark,
 Whose worth's unknown, although his height be taken.
 Love's not Time's fool, though rosy lips and cheeks
 Within his bending sickle's compass come;
 Love alters not with his brief hours and weeks,
 But bears out even to the edge of doom.
 If this be error and upon me provéd,
 I never writ, and no man ever loved.
 - (b) Eternal spirit of the Chainless Mind!

 Brightest in dungeons, Liberty! thou art:

 For there the habitation is the heart—
 The heart which love of thee alone can bind;

 And when he sons to fetters are consign'd—
 To fetters, and the damp vault's dayless gloom—
 Their country conquers with their martyrdom,
 And Freedom's fame finds wings on every wind.

 Chillon! the prison is a holy place,
 And the sad floor an altar—for 'twas trod,
 Until his very steps have left a trace
 Worn, as if the cold pavement were a sod,
 By Bonnivard! May none these marks efface!
 For they appeal from tyranny to God.
- 3. Give in your own words the substance of one of the following passages:—
- (a) Surfi was the glorious end of these men; they were worthy of Athens, and the living need not desire to have a more heroic spirit although they may pray for a less fatal issue. The value of such a spirit is not to be expressed in words. Any one can discourse to you for ever about the advantages of a brave defence, which you know already. But instead of listening to him I would have you day by day fix your eyes upon the greatness of Athens, until you become filled with the love of her; and when you are impressed by the spectacle of her glory, reflect that this empire has been acquired by men who knew their duty and had the courage to do it, who in the hour of conflict had the fear of dishonour always present in them. The sacrifice which they collectively made was individually repaid to them; for they received again each one for himself a praise which grows not old, and the noblest of all sepulchres—I speak not of that in which the remains are laid but of that in which their glory survives, and is proclaimed

always and on every fitting or asion both in word and deed. For the whole earth is the sepulchre of famous men; not only are they comme morated by columns and inscriptions in their own country, but in foreign lands there dwells also an unwritten memorial of them, graven not on stone but in the hearts of men.

(b) 'Of making books there is no end,' complained the Preacher; and did not perceive how highly he was praising letters as an occupation. There is no end, indeed, to making books or experiments, or to travel. or to gathering wealth. Problem gives rise to problem. We may study for ever and we are never as learned as we would. We have never made a statue worthy of our dreams. And where we have discovered a continent, or crossed a chain of mountains, it is only to find another ocean or another plain upon the farther side. There is only one wish realidable on the earth; only one thing that can be perfectly attained: Death. And from a variety of circumstances we have no one to tell us whether it be worth attaining. A strange picture we make on our way to our Chimaeras, ceaselessly marching, grudging ourselves the time for rest; indefatigable, adventurous pioneers. It is true that we shall never each the goal; it is more than probable that there is no such place and if we lived for centuries and were endowed with the powers of a god, we should find ourselves not much nearer what we wanted at the end. O toiling hands of mortals! O unwearied feet, travelling ye know not whither. Soon, soon, it seems to you, you must come forth on some conspicuous hill-top, and but a little way further, against the setting sun, descry the spires of El Dorado. Little do ye know your own blessedness; for to travel hopefully is a better thing than to arrive, and the true success is to labour.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer Questions 1 and 11, and FOUR others.

The figures in the margin indicate full marks.

- 1. Explain, with reference to the context, three of the following passages, adding notes where necessary:--
 - (a) I had rather have one scratch my head i' th' sun When the alarum were struck, than idly sit To hear my nothings monster'd.
 - (b) The broad circumference

 Hung on his shoulders like the moon, whose orb

 Through optic glass the Tuscan at st views

 At evening, from the top of Fesole,

 Or in Valdarno, to descry new lands,

 Rivers, or mountains, in her spotty globe.
 - (c) So Romulus, 'tis sung, by Tyber's brook,
 Presage of sway from twice six vultures took.
 The admiring throng loud acclamations make,
 And omens of his future empire take.
 - (d) The mighty master smil'd to see That love was in the next degree; 'Twas but a kindred sound to move, For pity melts the mind to love

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- (c) Soon as she spreads her hand, the aërial guard Descend, and sit on each important card:
 First Ariel perch'd upon a Matadore,
 Then each according to the rank they bore;
 For sylphs, yet mindful of their ancient race Are, as when women, wondrous fond of place.
- 2. Either, Discuss, with special reference to Coriolanus, the statement that Shakespeare 'was of his age; but he was also of the ages.'
- Or, 'Coriolanus is a tragedy of the more extreme Shakespearean type in which is represented a conflict between an individual, or a group of individuals, and certain forces which environ, antagonize, and overwhelm.' Discuss this statement, and compare Coriolanus with any other tragedy of Shakespeare.
- 3. Either, Write notes on (a) the picture of Roman womanhood in Coriolanus, and (b) the character of Aufidius.
- Or, What do you consider to be the chief difficulties which a dramatist meets with in writing a historical play? Show how far Shakespeare overcame them in Coriolanus. In what sense can this play be called original?
- 4. Either, Sketch the character of Satan, and summarize his speeches in Paradise Lost, Book I.
- Or, Write a short essay on Paradise Lost, Book I. showing, by reference or quotation, Milton's feeling for beauty, stateliness of manner and imagery, and his talent for melodious and majestic diction.
- 5. Discuss the statement that 'Paradisc Lost is the product of two movements—Puri'anism and the Renaissance.'
 - 6. Compare the blank verse of Shakespeare with that of Milton. 15
- 7. Discuss the statement that the Rape of the Lock is a page torn from the petty, pleasure-seeking life of a fashionable beauty. In what sense can this poem be called perfect?
- 8. Give an account of the poetical achievements of Dryden, and estimate his position as a satirist in verse.
- 9. For what reasons are we justified in regarding Burns as a Romantic poet? What are the chief characteristics of his poetry?
- 10. Either, 'Poetry should please by a fine excess.' How far does this remark of Keats apply to his own poetry?
- Or, 'Had his marvellous genius fully matured, it is impossible to surmise what Keats might have done; but concerning the poetry that he has actually left us, the general verdict is that, while the best of it is of the highest expellence, the most of it is disappointing.' Discuss this statement with reference to those prems of Keats with which you are familiar.
- 11. Give in your own words the substance of one the following 25
 - (a) O Lyric Love, half-angel and half-bird
 And all a wonder and a wild desire,—
 Boldest of hearts that ever braved the sun,
 Took sanctuary within the holier blue,
 And sang a kindred soul out to his face,—
 Yet human at the red-ripe of the heart—
 When the first summons from the darkling earth
 Reach'd thee amid thy chambers, blanch'd their blue,
 And bared them of the glory—to drop down,
 To toil for man, to suffer or to die,—

This is the same voice: can thy soul know change?

Hail then, and hearken from the realms of help!

Never may I commence my song, my due

To God who best taught song by gift of thee,

Except with bent head and beseaching hand—

That still, despite the distance and the dark,

What was, again may be; some interchange

Of grace, some splendour once thy very thought,

Some benediction anciently thy smile:

—Never conclude, but raising hand and head

Thither where eyes, that cannot reach, yet yearn

For all hope, all sustainment, all reward,

Their utmost up and on,—so blessing back

In those thy realms of help, that heaven thy home,

Some whiteness which, I judge, thy face makes proud,

Some wanness where, I think, thy foot may fall!

Yes: in the sea of life enisled, With echoing straits between us thrown, Do:ting the shoreless watery wild, We mortal millions live alone. The islands feel the enclasping flow, And then their endless bounds they know. But when the moon their hollows lights, And they are swept by balms of spring, And in their glens, on starry nights, The nightingales divinely sing; And lovely notes, from shore to shore, Across the sounds and channels pour; O then a longing like despair Is to their farthest caverns sent! For surely once, they feel, we were Parts of a single continent. Now round us spreads the watery plain-O might our marges meet again! Who order'd that their longing's fire Should be, as soon as kindled, cool'd? Who renders vain their deep desire?-A God, a God their severance rul'd: And bade betwixt their shores to be The unplumb'd salt, estranging sea.

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

Candidates should answer Questions 1 and 6 and THREE others.

The figures in the margin indicate full marks.

- 1. Explain, with reference to the context, four of the following passages:—
- (a) He comes like Gulliver from among his little people, and he sannot fit the stature of his understanding to yours. He cannot

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meet you on the square. He wants a point given him, like an indifferent whist-player.

- (b) His poetry is the reality, his philosophy—so far, at least, as it may put on the form and habit of 'a scientific system of thought,' and the more that it puts them on—is the illusion. Perhaps we shall one day learn to make this proposition general, and to say: Poetry is the reality, philosophy the illusion.
- (c) The notion of the free play of the mind upon all subjects being a pleasure in itself, being an object of desire, being an essential provider of elements without which a nation's spirit, whatever compensations it may have for them, must, in the long run, die of inanition, hardly enters into an Englishman's thoughts.
- (d) The Famalls and the Mirabels, the Dorimants and the Lady Touchwoods, in their own sphere, do not offend my moral sense; in fact, they do not appeal to it at all. They seem engaged in their proper element. They break through no laws or conscientious restraints. They know of none.
- (c) If culture, then, is a study of perfection, and of harmonious, perfection, . . it is clear that culture, instead of being the frivolous and uscless thing which Mr. Bright, and Mr. Frederick Harrison, and many other Liberals are apt to call it, has a very important function to fulfil for mankind.
- (f) I am afraid the poet wants his usual decorum in this place. Was he thinking of the old Roman luxury, or of a gaudy day at Cambridge? This was a temptation fitter for a Heliogabalus. The whole banquet is too civic and culinary, and the accompaniments altogether a profanation of that deep, abstracted, holy scene.
- 2. Either, 'Lamb's essays have the incoherence of dreams.' Discuss and illustrate.
- Or, What do you unders and by an 'Essay'? To what extent do Lamb and Arnold fulfil your ideals of an essayist?
- 3. 'That use me combination of bookishness and natural fancy, which makes the "Eliasque" quality, is obviously as well suited to the letter as the essay' (SAINTSBURY). Amplify.
- 4. Either, Consider the poetic theories propounded in Arnold's essays on Wordsworth and Keats, discussing their critical value and consistency.
- Or, Discuss the leading ideas in Arnold's essay on Sweetness and Light, indicating his abilities as a preacher.
 - 5. Compare Arnold and Lamb as masters of prose style.
 - 6. Give the substance of the following passage:-

Custom has a two-fold operation; the one to deaden the frequency and force of repeated impressions, the other to endear the familiar object to the affections. Commonly, where the mind is vigorous, and the power of sensation very perfect, it has rather the last operation than the first; with meaner minds, the first takes place in the higher degree, so that they are commonly characterized by a desire of excitement, and the want of the loving, fixed, theoretic power. But both take place in some degree with all men; so that as life advances impressions of all kinds become less rapturous, owing to their repetition. It is, however, beneficently ordained that repulsiveness shall be diminished by custom in a far greater degree than the sensation of beauty; so that the anatom st in a little time loses all sense of horror in the torn flesh and carious bone, while the sculptor ceases not to feel, to the close of his life, the deliciousness of every line of the outward frame. So then, as in that with which we are made familiar,

the repulsiveness is constantly diminishing, and such claims as it may be able to put forth on the affections are daily becoming stronger, while in what is submitted to us of new or strange, that which may be repulsive is felt in its full force while no hold is as yet laid on the affections, there is a very strong preference induced in most minds for that to which they are accustomed over that they know not, and this is strongest in those who are least open to sensations of positive beauty. But however far this operation may be carried, its utmost effect is but the deadening and approximating of the sensations of beauty and ugliness.

SIXTH HONOURS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks

FIRST HALF

Answer Question 1 and Two others.

1. Show your acquaintance with any three of the following 18 works:—(a) Widsith, (b) Gawain and the Green Knight, (c) Dr. Faustus, (d) The Dunciad, (e) She Stoops to Conquer, (f) The Prelude. (g) Adam Bede, (h) Sartor Resartus. 2. Write brief notes on two of the following: 16 (a) Middle English Alliterative Poetry. (b) The Odes of Gray. (c) English Pastoral Poetry. 3. Either, Show how far Christianity affected the spirit and themes of Old English poetry. 16 Or, Write a grort essay on Middle English romances. 4. Either, Trace the development of English prose fiction from Mandeville to Richardson. 16 Or, In what ways does the Drama of the Restoration differ from that of the age of Elizabeth? Who are the chief writers of Restoration Comedy and Tragedy, and which are the most noteworthy plays? 5. Either, Indicate the germs of Romanticism in eighteenth-16 century poetry, with special reference to the poetry of Thomson, Gray, Cowper, and Burns.

SECOND HALF

Or, Discuss: 'The development of periodical literature is the

most distinctive characteristic of the nineteenth century.'

Answer Question 6 and Two others.

- 6. Write philological notes on any six of the following words and phrases:—gossip, the age I live in, its, in spite of John's saying so, helpmeet, a house of his own, Yankee, England's wrongs, is being built, children.

 7. Estimate the nature and strength of the foreign element in
- 7. Estimate the nature and strength of the foreign element in Old English.

8. Explain and illustrate two of the following:—(a) back-formation, (b) hybridity, (c) the phrasal genitive.	16
9. Indicate the chief characteristics of English. How does English compare with other modern European languages?	16
10. How has English come to borrow words from languages other than Latin, Greek, Scandinavian, and French? Mention two words borrowed from each of the following languages:—Portuguese, Spanish, German, Russian, Hebrew.	16
- Constitution and Constitution	
FIRST PASS PAPER	
Chairman Prof. JNANRANJAN BANERJEA, M.A., B.L.	
## WR. PRIYANATH CHATTERIEE, M.A. ## BRAJASUNDAR RAY, M.A. ## SURESCHANDRA RAY, M.A. ## M.A. ## AMULYACHANDRA AIKAT, M.A. ## W.A. ## W.A. ## ABINASCHANDRA BOSE, M.A. ## MRS. RAJKUMARI DAS, M.A. ## MR. ASUTOSH CHATTERJEE, M.A.	
Candidates are required to give their answers in their own words as far as practicable.	
The figures in the margin indicate full marks.	
1. Either, 'The character who is dramatic plucks for himself the fruit of his own deeds.' Discuss. Or, Compare Caliban with (a) Ariel, and (b) the witches in	16
Macbeth.	
2. Either, Write a brief essay on the soliloquies in Macbeth. Or, Show that Macbeth is not equal to the struggle with fate and conscience.	16
3. Either, 'The Tempest is Shakespeare's most beautiful play, the most beautiful play in the world.' Discuss. Or, Illustrate that Prospero is a man with a giant's power which he uses like a god.	16
4. Either. Illustrate by reference to their poems the characteristics of the poetry of either Emily Brontë or Swinburne. Or, Show how the poetry of Tennyson differs from that of	16
5. Elucidate the central idea in any four of the following poems:— A Greeting, Meeting at Night, Lucifer in Starlight, Mimnermus in Church, Lost Days, Summer Evening.	16
6. Explain with reference to the context any four of the following	20

(a) He loves us not;
He wants the natural touch: for the poor wren,
The most diminutive of birds, will fight,
Her young ones in her nest, against the owl

passages :-

- All is the fear and nothing is the love, As little is the wisdom, where the flight So runs against all reason.
- (b) He shall spurn fate, scorn death, and bear His hopes 'bove wisdom, grace and fear: And you all know security Is mortal's chiefest enemy.
- (c) Whether thou be'st he or no,
 Or some enchanted trifle to abuse me,
 As late I have been, I not know: thy pulse
 Beats as of flesh and blood; and, since I saw thee,
 The affliction of my mind amends, with which,
 I fear a madness held me.
- (d) Fly hence, our contact fear!
 Still fly, plunge deeper in the bowering wood!
 Averse, as Dido did with gesture stern
 From her false friend's approach in Hades turn,
 Wave us away, and keep thy solitude.
- (e) Calm on the seas, and silver sleep, And waves that sway themselves in rest, And dead calm in that noble breast Which heaves but with the heaving deep.

SECOND PASS PAPER

MR. RAMPADA MAJUMDAR, M.A.

DR. SURENDRACHANDRA GUPTA, M.A., Ph.D.

(Lond.).

MR. SUHASCHANDRA RAY, M.A.

; GOPALCHANDRA MAITRA, M.A.

;, JYOTISCHANDRA MITRA, M.A.

;, CHANDICHARAN MITRA, M.A.

;, MANJUGOPAL BHATTACHARYYA, M.A.

;, GIRIJASANKAR BHATTACHARYYA, M.A.

;, NARENDRANATH CHATTERJEE, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Answer any one of the following:-

(a) 'Burke's pamphlets and speeches have lost nothing of their attraction by time.'

To what extent is this true of his Letter to the Sheriffs of

Bristol, and why?

(b) What do you know of the 'double legislature' holding authority over the American colonies? When and why did they clash with each other? Show how Rockingham's plan fully met the situation by restoring the 'ancient state of unsuspecting confidence in the mother country.'

- (c) How does Burke show that the existence in England of a party favourable to America was desirable and that the views of such a party, even when expressed freely, were not calculated to foster the spirit of rebellion in the colonies?
- 2. Explain, with reference to the context, any two of the following:—
- (a) Nobody has such a fanatical zeal for the criminal justice of Henry the Eighth, that he will contend for executions which must be retaliated tenfold on his own friends; or who has conceived so strange an idea of English dignity, as to think the defeats in America compensated by the triumphs at Tyburn.

(b) General rebellions and revolts of a whole people never were

encouraged, now or at any time. They are always provoked.

- (c) Instead of being a control on the crown on its own behalf, it communicated a sort of strength to the royal authority.
 - 3. Answer any one of the following:-
 - (a) Amplify the following statement:

'Literature is of a personal character; it consists in the enunciations and teachings of those who have a right to speak as representatives of their kind, and in whose words their brethren find an interpretation of their own sentiments, a record of their own experience, and a suggestion for their own judgments.'

(b) Discuss the following as an adequate criticism of R. L. Stevenson as revealed in his essay A Penny Plain and Twopence

Coloured :-

'He was not a great writer—in the sense in which Shakespeare is great. He belongs to the order of men who produce little things and shape them lovingly and exquisitely.'

(c) What inferences about Shakespeare the man does Bagehot

draw in his essay?

- 4. Explain, with reference to the context, any two of the following:—
- (a) The time scens coming when he who writes only how this ministerial conjurer out-conjured that other, and then guided, or at least held, something which he called the rudder of Government, but which was rather the spigot of Taxation, wherewith, in place of steering, he could tap, will pass for a more or less instructive Gazetteer, but will no longer be called a Historian.

(b) How is it that these English friends can so brightly paint that particular order of humanity which we call 'gentlemen and ladies.'

but neither heroes, nor saints, nor angels?

(c) The translators of the Bible talk of pence and not denarii, and the admirers of Voltaire do not celebrate him under the name of Arouet.

5. Answer any one of the following:-

- (a) Write a short note on the character of Jabez Wilson as revealed in Conan Doyle's story. What is your explanation of the insignificant part played in it by Dr. Watson? Illustrate the following saying of Sherlock Holmes as a commentary on the problem of The Redheaded League:—'As a rule, the more bizarre a thing is, the less mysterious it proves to be.'
- (b) Discuss the title of Stacy Aumonier's story, The Great Unimpressionable. What do you consider to be its climax? Is the reader gradually prepared for it? If so, point out how this is done. Would its omission add to or detract from the value of the story? Give reasons for your answer.

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- (c) Justify the remark that in *The Burglars* Mr. Kenneth Grahame' has not only caught but has also expressed the very spirit of boyhood.' Compare this story with Mr. Pett Ridge's *First Impressions* as pictures of boyhood, stating which of the two stories you prefer, and why.
- 6. Either, 'The Acts of the Apostles reveals to us the process by which an obscure Jewish sect expanded into a world-wide Church.'

 Prove the above by reference to your text.

Or, What do you regard as the principal ideas inculcated by St. Paul in the extracts from his Epistle to the Romans which appear in your text?

THIRD PASS PAPER

MR. RAMAPRASAD MOOKERJEE, M.A., B.L.
REV. J. N. RAWSON, B.Sc., B.D.
DR. ABDULLA-AL-MAMUN SUHRAWARDY, PH.D.
REV. Fr. A. CAMERON, M.A., B.D.
MR. JYOTISCHANDRA BANERJEE, M.A.
, MOHINIMOHAN BHATTACHARYYA, M.A.
, NARENDRANATH CHAKRABARTI, M.A.
, NRIPENDRACHANDRA BANERJEE, M.A.
, SYAMACHARAN MUKHERJI, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Give the substance of one of the following passages:-
- (a) There is a strong feeling in favour of rowardly and prudential proverbs. The sentiments of a man while he is full of ardour and hope are to be received, it is supposed, with some qualification. But when the same person has ignominiously failed and begins to eat up his words, he should be listened to like an oracle. Most of our pocket wisdom is conceived for the use of mediocre people, to dis curage them from ambitions attempts, and geneally console them in their mediocrity. And since medio re people constitute the bulk of humanity, this is no doubt very properly so. But it does not follow that the one sort of proposition is any less true than the other, or that Icarus is not to be more praised than Mr. Samuel Budgett, the successful merchant. The one is dead, to be sure, while the other is sill in his counting-house counting out his money; and doubtless this is a consideration. But we have, on the other hand, some hold and magnanimous sayings common to high races and natures, which set forth the advantage of the losing side, and proclaim it better to be a dead lion than a living dog. It is difficult to fancy how the medio rities reconcile such sayings with their proverbs.
- (b) Gentility is only a more select and artificial kind of vulgarity. It cannot exist but by a sort of borrowed distinction. It plumes itself up and revels in the homely pretensions of the mass of mankind. It judges of the worth of everything by name, fashion, and opinion; and hence, from the curious absence of real qualities or sincere satis-

faction in itself builds its supercilious and fantastic conceit on the wretchedness and wants of others. Violent antipathies are always suspicious, and betray a secret affinity. The difference between the 'great vulgar and the small 'is mostly in outward circumstances. The coxcomb criticizes the dress of the clown, as the pedant cavils at the bad grammar of the illiterate, or the prude is shocked at the backslidings of her frail acquaintaine. Those who have the fewest resources in themselves naturally seek the food of their self-love elsewhere. The most ignorant people find most to laugh at in strangers: scandal and sature prevail most in country places; and a propensity to ridicule even the slightest or most palpable deviation from what we happen to approve, ceases with the progress of common sense and decency.

2. Give the substance of one of the following poems:-

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Man.

He walks the world with mountains in his breast, And holds a hiltless wind in vassalage.

Transtellar spaces are his fields of quest, Eternity his spirit's ambassage.

The uneared acre of the firmaments

Under his hungry harrow, yields increase.

While from the threshold of dim continents

They beckon him, who bear the stars in lease.

And yet is he a thane of foreigners.

On sapphire throned, but in an unkinged house,

arrased with honours, broidered in gold sheen—

a pala c in a town of sepul hres.

Voices he hears, but knows not what they mean,

mis own to him the most mysterious.

The Earth-Child. $\cdot (b)$ Out of the years of the world comes the blood of me; The heart that beas in my side is the heart of the sea; The hills have known me of old, and they do not forget; Long ago I was friends with the wind; I am friends with it yet. The hills are grey, they are strange; they breed desire Of a tune that the feet may, march to and not tire; For always up in the distance the thin roads wind, And passing out of sight, they pass not out of mind. I am glad when morning and evening alter the skies; There speaks no voice of the stars but my voice replies; When wave on wave all night cries out in its need, I listen. I understand; my heart takes heed. Out of the red-brown earth, out of the grey-brown streams, Came this perilous body, cage of perilous dreams; To the ends of all waters and lands they are tossed, they are whirled, For my dreams are one with my body-yea, one with the world.

- .3. Write an essay on one of the following subjects:-
 - (a) 'A little learning is a dang'rous thing; Drink deep, or taste no: the Pierian spring.'
 - (b) The spirit of adventure.
 - (c) Whose leseth his life shall save it.
 - (d) Advertising—its use and abuse.
 - .(c) The ideal Indian University.

BENGALI

Paper-Setters—

{ Prof. Dineschandra Sen, Rai Bahadur, B.A., D.Litt. ,, Sunfti Kumar Chatterji, M.A., D.Litt.

| Head Examiner—Prof. Dineschandra Sen, B.A., D.Jitt. |
| Mr. Prabhatkumar Mookerjee, M.A. |
| Barindrakumar Ghosh. |
| Rai Sahie Jagadananda Ray. |
| Mr. Satischandra Mitra, B.A., B.T. |
| Gobindanath Guha, M.A. |
| Purnachandra De, B.A. |
| ,, Basantaranjan Ray. |
| ,, Gurubandhu Bhattacharyya, B.A., B.T. |
| ,, Nikhilnath Ray, B.L. |
| ,, Manmathamohan Basu, M.A. |
| Maulyi Abdul Karim. |
| Mr. Kalidas Ray, B.A. |
| ,, Dinabandhu Majumdar, M.A. |
| Dr. Sitanath Pradhan, M.Sc., Ph.D. |

All answers to be in Bengali, either in the Standard Literary S'yle (সাধুভাষা) or in the Standard Colloquial (চলিত ভাষা), avoiding a mixture of forms.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

QUESTIONS ON SET BOOKS: 40 marks.

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- 1. Give a brief critical sketch of the contents of the Meghanādabadha Kābya Cano II (or Canto III), mentioning the points in which Māikel Madhusūdan Datta was influenced by other writers, Indian or European, for both incident and character.
- 2. Give a short estimate of either the character and personality, or the literary achievement, of Māikel Madhusūdan Datta.
- 3. Either, Write a brief critical appreciation of the Krishnakanter 10 Uil in both its plot-construction and character-painting.

Or. Sketch the character of Gobindalal.

- 4. Either, Expand, after Rabindranath, the thought contained in two of the following passages:—
- (a) পৃথিবীর সভ্য সমাজের মধ্যে ভারত্তবর্ষ নানাকে এক করিবার জন্ম আদর্শ-রূপে বিরাজ করিছেছে।
- (b) গেটের এই লোকটা সানন্দের অভাব্তি নঙে, ইহা রসজের বিচার।
 - (c) "একবার ভোরা মা বলিগা ভাক।"

(।/) মামার সমস্ত আকাশ ঝর ঝর ক'রে ব'ল্ছে, "কৈসে গোয়ায়বি হরি বিনে দিন রাভিয়া।"

Or, Write a summary of Rabindranath's reminiscences of two of the following personalities:—(a) Rajendralala Mitra; (b) Father Da Penaranda; (c) Bankim Chandra Chatterji; (d) Rabindranath's Father; '(e) His Latin teacher in England.

ESSAY, TRANSLATION AND COMPOSITION: 60 marks.

5. Write an essay in Bengali on one of the following themes:-

(a) Village Reconstrction: its necessity for national well-being—problems of village life in your own district—natural advantages and disadvantages—the economic situation affecting the various social strata—the religious, cultural, and social outlook—what the young men should do.

(b) A critical appreciation of some book that has moved you deeply: nature and contents and character of the book—its excellences, and detects if any—in what way it has influenced you—how it can influence others, and society at large.

(c) Culture: your conception of culture—influence of the home and of education, and of the social, religious, and political environments on culture—the bearing of culture on one's personal character

as well as social and public life.

(d) The Period of Indian History which has the greatest appeal for you (e.g., the Vedic or the Maurya, the Gupta or the Mogul): great men of the period—the cultural life of the period in philosophy and literature, art and science—social and economic advance—importance of the period in Indian history and its place in world history.

6. Either, Summarize the following passage, bringing out the main idea:—

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পাশ্চান্তা সভাতার সংঘর্ষে আর যাগাই হউক, আমাদের পুরাতন বিচিত্র উৎস্ব-কলা যে ক্রমশ: বিলুপ্ত হইতে বসিয়াছে সে বিষয়ে আর কোন সন্দেহ নাই। দোল তুর্গোৎস্বই কি. বার ব্রভ অনুষ্ঠানাদিই কি. আৰু জাতকৰ্ম অনুপ্ৰাণন বিবাহাদি সংস্থারগুলিই বা কি, অন্ন দিন মধ্যে আমাদের সকল ক্রিয়াকর্ম্বেই যেন কি একটি পরিবর্ত্তন স্কক্ষ হইয়াছে— প্রাচীনকালে ইহার মধ্যে বে শুভ আনন্টুকু ছিল ভাহা বৃধি আর পাকে না, ইছার ব্যাপক সার্ব্বজনীন ভাব সৃষ্ট্টিত হইয়া পিয়া ক্রমশঃ ইছা ৰ্যক্তিৰিশেষের সমারোহময়ী ভামসিকভা-মাত্রে আসিয়া না পরিণভ হয়। कात्रन, व्यामारानत रात्म, ममाज-वक्त-श्वरनहे इंडेक वा लारकत श्रक्रि-গুণেই হউক, উৎসবমাত্রেই চতুম্পার্শের সর্বসাধারণের যেন একটি চিরন্থন অধিকার ছিল; আমার গৃহের পূজা-পার্বনে, আমার পারিবারিক সকল क्षणकर्ष्य (कवलमाज आमि जवर बामात्र गृहिषीत निकरे-मणकीयगन नरह, কিন্তু নিকটত্ব সমস্ত গ্রামের, চতুস্পার্মত্ব সমস্ত পল্লীর অন্তরে উৎসব স্থাীভূক হুট্রা আসিত, এবং সকলেরই মনে হুইত বেন তাহার নিজের বাড়ীর একৰে নৰাগত সভাতা ব্যক্তিগত স্বাভন্তারকাচলে আমুপরের मर्था बावधान क्रमणः है इबिक्रमधित कतिया जुनित्करह-भागवा नकन ... ا ترا حناها

অধিকার মাইনের পাকা মাপকাঠির সাহায়ে নূতন করিয়া বুঝিতেছি; স্থতরাং হৃদয়ের কাঁচা সরস সম্বন্ধ অক্ষুর রাখা অনেক স্থলেই অত্যন্ত কঠিন হইয়া উঠিতেছে।

Or, Amplify the thought consisted in one of the following passages:—

- (a) চন্দ্র করে, বিশ্বে আনো দিখেছি ছড়াখে, কলস্ক যা আছে তাহা আছে মোর গায়ে।
- (b) কেরোসিন-শৈখা বলে মাটীর প্রদীপে,—
 "ভাই ব'লে ডাকো যদি, দেবো গলা টিপে'।"
 হেন কালে গগনেতে উঠিলেন চাদা,
 কেরোসিন বলি' উঠে, "এসো মোর দাদা।"
- 7. Translate into Bengali one of the following passages:-

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- (a) Educate, or govern, they are one and the same word. Education does not mean teaching people to know what they do not know. It means teaching them to behave as they do not behave. And the true 'compulsory education' which the people now ask of you is not catechism, but drill. It is not teaching the youth of the country the shapes of letters and the tricks of numbers; and then leaving them to turn their arithmetic to roguery, and their literature to lust. It is, on the contrary, training them into the perfect exercise and kingly continence of their bodies and souls. It is a painful, continual, and difficult work; to be done by kindness, by watching, by warning, by precept, and by praise, and above all, by example. Compulsory! Yes, by all means! 'Go ye out into the high-ways and hedges, and compel them to come in.' Compulsory! Yes, and gratis also.
- (b) This city of Calcutta, which offered its shelter to thousands upon thousands of men, had become like a steel trap. He could see no way out. The whole body of people was conspiring to surround and hold him captive—this most insignificant of men, whom no one knew. Nobody had any special grudge against him, yet everybody was his enemy. The crowd passed by, brushing against him; clerks from different offices ate their lunch on the road-side out of plates made of leaves: a tired wayfarer on the maidan was lying under the shade of a tree, with one hand beneath his head, and one leg crossed over the other: up-country women, crowded into hackney carriages, were on their way to the temple; a chuprassie came up with a letter and asked him to read the address on the envelope,—so the afternoon went by, till one by one the offices began to close. Carriages started off in all directions, carrying people back to their homes.
- 8. Rewrite the following after correcting all errors in spelling, grammar and idiom:—

বহু শর্কার উপবেশন করিয়া ২ একাকি অধ্যাপনা করার দক্ষন ভাহার প্রতি রোক্ট শির ধরিত। অত্যাধিক পঞ্জিদের অবস্থ একটা ফল হইল। সে পরীক্ষার উত্তীর্ন কবিল। কিন্তু স্বাস্থ্য এই বে খণ্ড বিৰুপ্ত হইল, ভাহা আর সংশোধন হইল নং। বহু দীর্ম রন্ধনিসমূহ সে বিনিজ্যার কর্তুন করিত। তথন স্বীয় শরীরের তুরাক্ষা শরণ করিয়া অঞ্জ-

সারে বক্ষোত্তল প্লাভ হইত। কবিধান্তের বটীকাগুলি পান ও নানারণ ভরল ওষধি ভোজন করিয়া তাহার কোন উপকার সাধিলনা। কে করিবে ভাহার উপকার, নৈস্গিক নিয়ম লক্ষ্মণ করে যে 🕈

ALTERNATIVE PAPER

Paper-Setter-Prof. S. K. Chatterji, M.A., D.Lit.

Examiner DR. MUHAMMAD SHAHIDULLA, M.A., PH.D.

Candidates are required to give their answers in their own words as far as practicable.

Write your answers in Bengali (for GROUP II, you may write in English): use either the সাধু ভাষা or the চলিত ভাষা but you must not mix up the two styles in the same composition.

GROUP I.

HISTORY OF BENGALI LITERATURE: 45 marks.

Select any THREE questions from this group.

- 1. Write a brief account of the Govinda-candra or Gopi-candra legend and its place in Bengali literature, mentioning the more important works dealing with it.
 - 2. Give a short sketch of Bengali literature prior to 1500 A.D.
- 3. Discuss the nature and the relative importance of the various early Bengali biographies of Caitanya.

4. Give a short appreciation of Kavikankana Mukundarama Cakravartī

as a painter of life and society and of individual character.

- 5. Write a brief account of the more important pada collections, describing their method of arranging the poems.

 6. Indicate the place of Māikel Madhusūdan Datta in Bengali literature.

 - 7. Give an account of Dinabandhu Mitra as a dramatic writer. Write notes on five of the following authors or works:-

রামমোহন রায়; ভদ্রার্জ্জন নাটক; কাঞ্চীকাবেরী; সীতার বনবাস;

विद्यातीमान ठळ्कवर्ती : ज्रुरम्य मुर्थाभाशाद्र : त्रुत्रमश्चाद्र : वक्षमर्थन : लाकद्रहरू : জীবনসন্ধা: রজনীকান্ত সেন: শ্রীকান্ত: আলো ও ছায়া: হুডোম পেঁচার नका।

GROUP II.

HISTORY OF THE BENGALI LANGUAGE: 25 marks.

Answer any TWO questions from this group.

9. Indicate the stages in the development of Bengali as a Modern Indo-Aryan language from Old Indo-Aryan (Sanskrit), adducing examples in illustration of your answer.

- 10. Explain the relationship between the Sādhu-bhāṣā and the Calit-bhāṣā (the Standard Literary and the Standard Colloquial), and write a brief note on the dialects of Bengali. What is the pronunciation and significance of the colloquial form *3\sqrt{1} in East Bengali and in West Bengali?
- 11. Write a note on the pronunciation of অ, আ, অ, এ, ও, ও, ৭ and অন্তঃ ৰ in Bengali.
- 12. Write notes on five of the following:— 'প্রাক্ত'; কুটিল লিপি; the source of the genitive affix রু.এর; the source of দিল; পরার; লাচাড়ী; auxiliary or compound verbs; the passive voice in Bengali; the Conquest of Ceylon and Bengal; the Aryan languages of India.

GROUP III.

BENGALI ESSAY: 30 marks.

- 13. Write an essay in Bengali on one of the following subjects :--
 - (a) বাঙ্গালা সামাজিক উপস্থাস।
 - (b) ভারতের রাষ্ট্রভাষা ও বাঙ্গালা।
 - (c) शकानहीं।
 - (d) বাঙ্গালার গ্রাম।
 - (e) अत्रगा।
 - (f) বাঙ্গালা সাহিত্যে হাশ্রুরস।
 - (9) বালালা ভাষার ফারসী শব্দ।

ASSAMESE

Paper-Setters— { MR. BANIKANTA KAKATI, M.A. SRIJUT PADMANATH BARUA, B.A.

Examiner-Mr. Ambikanath Bora, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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1. Translate into Assamese the following passage:—
The modern revolt against conventional morals is a sign of the quickening of conscience. Changes in the moral codes are generally brought about by a few individuals who throw aside their prejudices and get at the reality which is much bigger and finer than our conventions make us believe. Every moral reformer is an immoral force in the eyes of the conservative who prefers the comfortable sloth of conventional morality to the alarming activity of reflective intelligence.

For morality is nothing else but the current brand of social custom, and any one who insists on doing differently is immoral, though his immorality acquires ethical value in the next generation

and becomes a part of the tradition in another. At any one period, we always have a few who are in advance of the highest life-conception of the time and some behind it, while a large number are about it. The first are the rebels, the second the criminals, and the last the normal individuals. All progress is due to the rebels.

- 2. Write an essay in Assamese on one of the following 20 subjects:—
 - (a) 'An unexamined life is not worth living.'
 - (b) Modern Assamese literature.
- 3. Account for the case-endings in the words underlined in the 10 tollowing:—
 - (a) চিত্তে সৈতে।
 - (b) ঘুৰণীয়া মুখেৰে লৰাটো।
 - (c) গোপালৰ খোৱা হল।
 - (d) মই গোপালে লিখা চিঠিখন পাইছোঁ।
 - (e) সোমবাৰে আহিব।
- 4. Discuss the date of Hem Sarasvatī in the light of the references furnished by your text.
- 5. "পুৰ্ণি অসমীয়া সাহিত্যত মাধৱদেৱ বাৎস্ল্য ৰসৰ শ্ৰেষ্ঠ 15 প্ৰকাশক"।

Examine this statement with reference to your text.

- 6. Give an account of the literary activities of Sankar Dev. 10
- 7. Explain with reference to the conjext any three of the following passages:
 - (u) "যিটি গান ভূনি বিৰহী যক্ষ্ট পালে গিৰি চিত্ৰকুট; সেই স্থৰতে নে কবি কল্পনাড ফুটি উঠে মেখদুভ ?"
 - (৫) "গালি মাজনিশা দীপক স্থৰত প্ৰেম সঞ্চাৰিণী গান ; কুন্থম কোমলা সৰলা উষাৰ মোহিত কৰিলি প্ৰাণ !"
 - (c) "হামাকু চোৰ, বোলসি ভোহো ঢান্তী, আপুনাহ লাধ হগ্ধ খাই।"
 - (d) "ৰো হাৰ এ তিনি ভূবন অধিকাৰী। গোকুল মাজে গোহি গ্ৰন্থ ভিৰাৰী॥"

HINDI

Paper-Setters— { LALA SITARAM, B.A. PANDIT SAKALNARAYAN SARMA.

Examiner-MR. RAMKRISHNA SUKLA, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

सीता लखन समित प्रभु राजत पर्यकुटीर।
 भगति ज्ञान बैराग्य जनु सोझत धरे सरौर ॥

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Explain fully in Hindi the appropriateness of the three similefor each of the three personages in the above dohā.

- 2. Explain fully in Hindi any two of the following passages:
 - (a) चार चरननख लेखित धरनी।
 नूपुर मुखर मधर कवि बरनी॥
 मनषु प्रेमबस विनती करहीं।
 हमहिं सीयपट जान परिहरहीं॥
 - (b) भीर को जाने रस की राति।
 कहां हीं दीन कहां विभुवनपति मिले पुरातन भीनत ॥
 चतुरानन तन निमिष्ठ न चितवत इती राज की नीति।
 मीं सीं बात कही हिरदय की गये जाहि जुग बीति॥
 विनु गोविन्द सुख सुन्दरि कैसे भुस पर की सी भीति।
 हीं कहा कहीं सुर की प्रभु के निगम करत जाकी जीति॥
 - (c) कितिक दंस दक्षी दल के बल, दिक्क वंगुल चापि के चाख्यी। क्ष्य गुमान इन्सां गुजरात की, म्रति को रस चूिस के नाख्यी॥ दंजन पेलि मलेक्क सल्यों सन, सीई बच्ची जिड़ दीनहीं भाख्यी। सी रंग है मिवराज बली जिहिं, नीरंग में रंग एक न राख्यी॥
- 3. Describe in Hindi the appearance of Sivāji in the court of 10 Aurangzeb according to Bhūshan. How does it differ from the account generally given in ordinary Indian histories?
- 4. Note the principal points of difference in the conjugation of 10 verbs in the Ayodhyā Kāṇḍ and the Sura Padāwali.
 - 5. Amplify the following:-

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राम चरित चिनामनि चार । सन्त सुमति तिच सुभग सिंगाइ॥ जग मंगल गुन गाम राम के।

दानि सुकुति धन धरम धाम के।

सदगुक ज्ञान विराग जोग के।

विबुध बेट भव भीम रोग के॥

जननि जनक सिय राम प्रेम के।

बीज सकल ब्रत धरस नेम के॥

6. Translate into Hindi :--

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Who so is unmoved by lust, anger, pride, or arrogance, and is without covetousness, excitement, partiality or malice, without fraud, hypocrisy, or heretical delusion; dwell in his heart, Raghurāya. They who are all men's friends, and are friendly to all; to whom pleasure and pain, praise and abuse are alike; who are careful to say what is both true and kind; who, whether sleeping or waking, place themselves under your protection and have no other way of salvation but you; in their heart, Rama, abide. They who look upon another man's wife as their own mother, and another man's wealth as the deadliest poison, who rejoice to see a neighbour's prosperity and are grieved for his misfortunes; and to whom you, O Rama, are dear as their own life: be their heart your auspicious abode.

7. Explain the various significations of the suffix and in Hindi.

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- 8. Frame sentences to illustrate the use of the following in Handi:—
 - (a) डाच भाना।
- (b) हाथ मलना।
- (c) मं**इ बना**ना।

- (ती) पांख लगना।
- (e) दांत पीसना।
- 9. Write an essay in Hindi on one of the following subjects:-

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- (a) कत विधि सजी नारि जग मांडी। पराधीन सपनेडु सुख नाडीं॥
- (b) सभी देश सेवा।
 - (c) Modern University education.

MAITHILI

Paper-Setter and Examiner—MR. GANGANAND SINGH, M.A.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Either, How far is the language of Vidyapati's Kirti-lata Maithili? Discuss the origin of the play with special reference to this question.

Or, Give your views with regard to the Samavati Punarjanma

Nataka of Jivan Jha.

2. Explain, with reference to the context :-

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चक्त पुरुष दिसि वहिल सगरि निसि गगन मगन मेल चन्दा। मुन्न गिल कुसुदिनि तहची तोहर धनि मृत्रल सुख चरिन्दा ॥

- - 5. Translate into Maithili :--

में सहायता देताह।

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Just as the chronicle of last year's events in India began with the statement that the appointment of the Indian Statutory Commission was the most important happening of the year, so the present narrative begins with the statement that the issues with which the Commission are concerned were the centre of political interest during the year now under review. During the period the Commission completed a very important part of its inquiry, namely that part which had to be carried out in India itself. During the course of their tour Sir John Simon and his colleagues visited every province and obtained material which will enable them to study from every point of view the problems on which they have to report.

- 6. Construct sentences to use the following words in feminine gender:—
 - (a) मन्छ। (b) नेना। (c) गोधार। (d चमार। (e) गिदर।
 - 7. What is an wayre? Give illustrations.

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- 8. Write in Maithili an essay on any one of the following subjects:—
 - (a) Isolation is death.
 - (b) Scientific inventions and the modern world.
 - (c) The glories of mediaeval Mithila.

ORIYA

Paper-Setters = { Mr. Artaballabh Mahanti, M.A , Priyaranjan Sen, M.A.

Examiner-Pandit NILKANTHA DAS.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into Oriya any one of the following passages:

(a) In the second century of the Christian era, the empirof Rome comprehended the fairest part of the earth, and the most civilized portions of mankind. The frontiers of that extensive monarchy were guarded by ancient renown and disciplined valour. The gentle, but powerful, influence of laws and manners had gradually comented the union of the provinces. Their peaceful inhabitants enjoyed and abused the advantages of wealth and luxury. The image of a free constitution was preserved with decent reverence: the Roman senate appeared to possess the sovereign authority, and developed on the emperors all the executive powers of government.

(b) Desire of fame naturally betrays the ambitious man

(b) Desire of fame naturally betrays the ambitious man into such indecencies as are harmful to his reputation. He is still afraid lest any of his actions should be thrown away in private, lest his deserts should be concealed from the notice of the world, or receive

any disadvantage from reports which others make of them. This often sets him on empty boasts and ostentations of himself, and betrays him into vain fantastic recitals of his own performances: his discourse generally leans one way, and whatever is the subject of it, tends obliquely either to the detracting from others, or to the extolling of himself.

- 2. Give a short sketch of Nazir Bahu as depicted by Fakir 16 Mohan, laying stress on the peculiar traits of his character.
 - 3. Write a note on either อิถาเฉกาถิ or ภูเซเกรา์.
- 4 Explain any two of the following with reference to 12 the context:—
- (a) ଯେୟଠାରେ ପ୍ରେମ, ୱେହିଠାରେ କାଧ୍ୟରା—ବୁଉରା• ପ୍ରେମହିଁ ପକିତ୍ରତାର ପ୍ରକୃତ ପଥ । ପ୍ରେମର ଧର୍ମହିଁ ପ୍ରେଗୁ ଧର୍ମ ।
- (b) ସେଥିରେ କୃତ୍ରିମନୀୟ ଗନ୍ଧ ନାହିଁ କୌଶସି ପ୍ରକାର ଆକରଶ ନାହିଁ । ଯାହା ନୀବନ, ତାହାହିଁ ସାହିତ୍ୟ ।
- (८) ବିଚାରାଳୟରେ ବିଶେଷ ଅବସ୍ତା ଅବଗତ ଥି**ବା ଉପସ୍ତିତ** ଦର୍ଶକମଣ୍ଡଳୀ ଓ ଅମଲାମାନେ ଚକିତ୍ ଓ ନିସ୍ତବ୍ଧ <u>ରୁ</u>ମସ**୍କଳ ପାର୍ଥିକ** ବିଚାରାଳୟ ସମ୍ମୁଖରେ ଏହା ଗୋଧାଏ କିଛି ନୂଜନ ଦୃମ୍ୟ ନୁହେଁ॥ ***
 - 5. Explain the following:
 - (a) ଅଣବଦ ଶବଦ ରୂମା ବାକ୍ୟ ଅଗୋଚର ଗୁଣଇ ସ୍ତବଧ ପ୍ରାଣ ସେ ନୀରବ ସ୍ୱର ।
 କେ ନାଶେ କାହୁଁ ସେ ବାଶୀ-ବୀଶାର ଶବଦ କେନ୍ତର ପୂରିଲ। ଋଷି-ହୃଦ-ବିଷ୍ଟୁଅଦ ।
 - (b) ରକୃତୀତି ବହତରୀ ଆଣା ଅଧିଷ୍ଠିତ ଏ ବୃର୍ଗ ତୋଇଣ ଖପା ଅବାରିତ-ପ୍ୱାର ପ୍ରରୀ-କିର୍ବିତ ବିଣ୍-ବିହୋତ୍ତନ ।

6. Rewrite the following in simple Oriya:--

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ପ୍ରତ୍ୟେକ ମନୁଷ୍ୟର କିଛି ନା କିଛି ମୌଳିକରା ଅଛି। ସେ ରାହାର ମାନ୍ତସିକ ଶକ୍ତି ଓ ମେଧାବଳରେ ଓ ସ୍ୱୀପ୍ ଉଦ୍ଭାବିକା ଶକ୍ତି ସ ହାପ୍ୟରେ ଅନେକ ଅନୁଦ କିଷପ୍ ଆବିଷ୍ମାର କରେ। ଦେଶୁ ରାହାର ପୂର୍ବପୂରୁଷ-ମାନଙ୍କ ପରି ଧର୍ମରୀବ ଓ ଧର୍ମନିଷ୍ଠା ଠିକ୍ ସେହିପରି ରାବରେ ରହେ ନାହିଁ। କାରଣ ରାହାର ଗବେଷଣା ଶକ୍ତିଦ୍ୱାରା ସେ ସେହି ରାବସମୂହର ସଂପ୍ରସାରଣ ଓ ସ୍ୱୀପ୍ ଅନୁରୂଷି ସାହାଯ୍ୟରେ ବାସ୍ତବ ନଗତ୍ ବିଷପ୍ତରେ ଅନେକାନେକ ଅରିନ୍ଦ ରଥ୍ୟ ଆବିଷ୍ମାର ପୂର୍ବକ ମନୁଷ୍ୟ ନୀବନରେ ପୋର ପରିବର୍ତ୍ତନ ସଧ୍ୟ ।

- Construct sentences with the following words:—
 ରାଳ୍ଗି, ଧାଉ, ଲୁଧିପୂରି, ପଞ୍ଜାନ, ଗୋଗ୍ନାକି, ଧୁକ୍ଶା, ଅଡ଼ର।
- 8. Write an essay in Oriya on one of the following subjects:-
 - (a) The industrial needs of India, especially of Orissa and of your home district.
 - (b) Duties of a citizen: his rights and responsibilities.(c) The influence of extensive reading of fiction on character.

NEPALI.

Paper-Setters— { PANDIT DHARANIDHAR SARMA, B.A. BODHBIKRAM ADHIKARI, M.A.

Examiner-Mr. Dharanidhar Sarma, B.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Lither, Fully describe in Nepali the parentage of sakuntala and how she came to be brought up in the hermitage of Kanwa.
- Or, Narrate in Nepali the circumstances under which Urbashi, a celestial nymph, came to be united with Pururaba, an earthly king, as his wife.
- 2. Either, State in your own words in Nepali the occasion of the meeting of Dushyanta and sakuntala, their love at first sight and their consequent marriage.
- Or, Describe fully in Nepali the life led by Pururaba and Urbashi in the forest of Gandhamadana with all its vicissitudes.

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3. Either, Sketch the character of Manabaka, the Brahmin 10 clown at the court of Pururaba.

Or, Describe fully the hermitage of Kanwa and show how an atmosphere of peace and piety prevailed there.

4. Either, Describe in Nepali the capture of Urbashi by the 10 Danavas and her subsequent release by Pururaba with its effect on the king.

Or, State in Nepali in what form of marriage Dushyanta and Sakuntala were united and what were the other forms of marriage prevailing then in India.

5. Give the idea contained in the following:-

कती कराउँ छन् संधे न पाइ खान एक् सुठी, कती छडाछ्छन् उसे चकार्थमा सुती सुती-धनी भद्र विचारको भड़ाय लेउ यो घरी, गरौवको इँदैन वेस चवश्व चाँग्रको भरी; सहाय देउ द्रव्यको द्यालु भैंअगत् महा, दिनु लिनु छ सार ये समस द्रव्यको सहा,

6. Translate the following into Nepali :--

He drew a sharp quick breath—the hum of the gay voices around him was more meaningless to his ears than the sound of the sea breaking on the beach below. He glanced at the girl—the fair and innocent creature, who had, in his imagination, risen to a throne of imperial height, from which she could bestow on him death or salvation. How calm she seemed! She was pale, and her eyes were heavy; but she smiled now and then—such a smile! Even so sweetly might the 'kiss-worthy' lips of the Greek Aphrodite part, could that eloquent and matchless marble for once breathe into life. He looked at her with a sort of fear. Her hands held his fate. What if she could not love him? What if he must lose her utterly? This idea overpowered him; his brain whirled, and he suddenly pushed away his untasted glass of wine and rose abruptly from the table, heedless of the surprise his action excited.

7. (a) Give the figurative meanings of any two of the following, and use them in sentences of your own:—

(i) कानमा तेल डालन ।

(ii) कान समातन्।

(iii) जुडूना ठीकन्।

(iv) मामाको घर देखाउन ।

- (v) बाबको विद्या देखाउन ।
- (b) Rearrange the following words so as to make a complete sentence:—

बीरत जातिको गीरख। ली गुरुजनको हुन् कष्टसहन शीख सेवा हामी र गहना.

- 8. Write an essay in Nepali on any one of the following subjects: 2
 - (a) There is no shame to be a shoemaker, but it is a shame for a shoemaker to make bad shoes.
 - (b) The possible achievements of science in another fifty years.
 - (c) Broadcasting as a source of information and amusement.

TELUGU

Paper-Setters— { Prof. S. Radhakrishnan, M.A., D.Litt. Mr. B. Ramchandra Rau, M.A.

Examiner-Mr. B. RAMCHANDRA RAU, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. ప్రామీన తెలుగు బాషకును ప్రాస్తుత తెలుగుళాడకు గల తారత 20 మ్యము లేవియో విశోదము గా త్రాయుడు.
- 2. వా ల్డ్ కి రామాయణములో లేనటువంటి కొత్త నంగతులు మీ 20 గృంథక ర్తమే యేవిషయములయందు పొందు పటచెనూ వ్యాయుడు.
 - 3. ఈ క్రింది పద్యమునకు తార్పర్యము ప్రాయుడు:— 10

 కన్నులు దచ్చియొల్లిడలు గొన్నాని వృద్ధనారేందు డాత్తకుం

 గన్నులు జూలెవైన తన గాదిలి ఖత్తు దుంగాన నంబులా నెన్నడు లేనియంతే తడవేటికి జికెండ్ మెయంచు నార్తిలో గన్నులు లేనియట్లొకడు గానకయేడ్నె సతీసమేతు డై
- 4. ఈ దిగువనుడాహెంచిన పద్యముయొక్క భావము గ్రహించి 10 (రెండు పేజీలు మించకుండా) వ్యాసము వాయుడు:—

 20°

"ఎదరికే రీతి భావన లెనగుచుండు వారికా రీతి తగుసిద్ది వఱలుచుండు."

We witness a seething unrest and ceaseless activity in every field of our life. Tremendous forces have been let loose, much like the waters of a mighty river, and at times it would appear that they are capable of doing nothing but mischief. The bitter quarrels between the Hindus and the Muslims are essentially a part of the National Renaissance, for it shows that the minorities who have been suppressed and oppressed in the past are fully conscious of their rights and are attempting to assert them. Exaggeration in the beginning is but natural, and it is for our own good that each community should attain its equality with the others as soon as possible. Similarly in the political field we are witnessing the tremendous drama of a struggle for national rights, and here again exaggerations and distortions are but a natural part of the game. In religious matters, artistic and educational spheres, long-standing distortions

have been swept away and the past being brought into line with the spirit of the times.

6. Write an essay on the following subject in idiomatic 20 Telugu:—
either రాజనీతి, or సాంఘనసీతి.

MALAYALAM

Paper-Setter and Examiner—Rev. C. E. Abraham, M.A., S.J.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. താഴെപ്പറയുന്ന വിഷയങ്ങളിൽ ഏതെങ്കലും 35 ഒന്നിനെക്കുറിച്ച് ഒരുപന്ന്വാസം എഴതുക :—
 - **ക**. രാമായണത്തിലെ ആദർശങ്ങ**ം**.
 - വ. പാശ്ചാത്വ പരിക്ക്കാരത്തെക്കുറിച്ചുള്ള ഒര ഗുണദോക്പനിരുപണം.
 - ന്മ. മലബാറിലെ ക്ഷേത്രങ്ങൾം.
 - ര്. മലയാള ഭാഷാ സാഹിത്വത്തിന്റെ അഭിവൃഡി മാഗ്ഗങ്ങൾ.
 - ഒ. പരസ്സര ധനസഹായ സംഘങ്ങൾ.
- 2. 'മാത്താണ്ഡവമ്മ'യുടെ ഗ്രന്ഥകത്താവിനെക്കു 5 റിച്ച് നിങ്ങ**ംക്ക് എന്ത**റിയാം? <mark>അല്ലെങ്കിൽ</mark>, തിരുവനന്ത പുരം പ്യട്ടണത്തെക്കുറിച്ച് പ്രസ്തുത ഗ്രന്ഥത്തിൽ നിന്നു് നിങ്ങ**ംക്ക് എ**തു ഗ്രഹിക്കാം?
- 3. മാത്താണ്ഡവമ്മയാൽ നിന്ന് നിങ്ങ**ംക്ക്.⁸** ഏററവും **അ**ധികം ഇഷ്ടം തോന്നുന്ന ഒരു കഥാ. പാത്ര**ടത്തു വിവരിക്കു**.

- 4. 'സുഭര് 'യുടെയോ, 'സുന്ദരയ്യ' നെറയോ, സാ 7 മത്ത്വത്തെ ഉദാഹരിച്ച് വിസൂരിക്ക. അല്ലെങ്കിൽ, മാത്താണ്ഡവമ്മയിലെ യഥാത്മ നായകൻ ആരെന്ന് കാരണ സഹിതം സ്ഥാപിക്ക.
- 5. (a) താഴെക്കാണുന്ന സംഭാഷ്പണം നല്ല മലയാള ${f 5}$ ത്തിലാക്കുക :—
- പലന്ദം ... " ആ ... പിച്ച ... വണ്ണട്ടല്ലോ. പിച്ചയെ കൊണ്ണില്ലയോടോ ? "
- ഒഴക്കൻ. "ഏതു പിച്ചയെടാ മച്ചമ്പി?" കൊപ്പിളൻ. "നോക്ക്. തെരിയാതെണ്ണ?" ഒഴക്കൻ. "എക്കെ അപ്പിച്ച നാണ് എക്കറിഞ്ചൂടെ." ദ്രാന്തൽ. "പയകളെ എല്ലാം ഒണ്ണൊണ്ണാ അരിഞ്ചല്ലാ മാവാവി പോട്ടിരിക്കെത്ര്. നമ്മ ആണങ്കളെങ്കി പോറുക്കുമെണ്ണ്ക്?"
- (b) ഈ സംഭാക്ഷണത്തിന്റെ സന്ദർഭം എന്തു് ? 3 'പ്രാന്തൽ' ആരു് ?
- 6. ഇമ്ലാക്കിനെക്കുറിച്ച് എന്തറിയാം? അപ്ലെങ്കിൽ, 12 റാസ്റ്റലാസിൽ നിന്നു് പഠിക്കാപുന്ന സന്മാഗ്ഗ് പാഠങ്ങൾം എന്തെല്ലാമെന്നു് പറക.

- 7. Translate into Malayalam:-
- (a) Adversity rightly used develops and reveals character. This is found true in the lives of many great men in this world. We think of James Watt as a genius at invention. But Watt himself was sickly of body, starving on eight shillings a week, and saying, 'Of all things in life there is nothing more foolish than inventing.' Wilberforce 'the attorney general of the unprotected and of the friendless,' was for twenty years compelled to use optum to keep himself alive. One of the chief rewards of reading biography

is this introduction that it gives to handicapped men, who in the words of Thucydides, 'dared beyond their strength, hazarded against their judgment, and in extremities were of excellent hope.'

(b) He prayeth well, who loveth well Both man, and bird, and beast. He prayeth best, who loveth best All things both great and small; For the dear God who loveth us, He made and loveth all.

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8 യവ്യതരംഗ്വ ദ്രാശ ചീപ്പു പൊട്ട-

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ക്കുവിത പൊഴിച്ചു മഹാജനത്തിനിഞ്ഞാൻ, ചെവിരുജ തടവിച്ച പാപമാവാ-മവിനയനാം മമ കണ്ണുരോഗഹേതു.

മേലെഴുതിയിക്കുന്ന ശ്ലോകത്തിന്റെ അത്ഥം വ്വാപ്വാനി ച്ചെഴുതുക. കുപി ബധിരനാകുന്നതിനുളെ കാരണങ്ങൾം എന്തെല്ലാമെന്നാണു് "ബധിരവിലാപ" ത്തിൽ സങ്ക ല്ലിച്ചിരിക്കുന്നതു്?

B.A. EXAMINATION

GUJARATHI

Paper-Setter-Prof. I. J. S. Taraporewala, B.A., Ph.D.

Examiner-Prof. Hargobinda Das Seth.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

જવાબ ગુજરાતીમાંજ લખવા.

1. નીચલા વિષયા પૈકી એક પર નિબંધ લખા:

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- (ક) સ્વાશ્રયના છે ઉદ્ઘાસ.
- (ખ) મનુષ્ય પ્રયત્ન, ઇશ્વર ઇચ્છા.
- (ગ) સેવામાં ઈશ્વરના મેવા.
- 2. લેખક તરી કે સામળ તથા અખા એ ખેમાં શ્રેષ્ટ તમા કાને ગણા ? **15** સવિસ્તર તથા ઉદાહરણા ટાંડીને લખા.

અથવા

ગુજરાતી સાહિત્યમાં પ્રેમાનંદ નું સ્થાન અદ્ભિતીયશા કારણે ગણાય છે તે સમળવા.

- 3. લક્ષ્મી દેવી તમારાં પાડ્ય પુરૂકમાં કેવું સ્થાન ભાગવે છે તે લખા 15
- 4. મુંજના સ્વભાવને તમા ગર્વષ્ટ મણાઇા કે ટેકીલાે? સવિસ્તર **15** સમજાવા.
 - 5. નરસિંહ મહેતાની કૃષ્ણ ભક્તિને મીરાંની બક્તિ સાથ સરખાવા. 15

6. નીચલા પૈકી એકની ગુજરાતી ભાષામાંજ સમજણ આપાં:

(ક) કડુ વાણી સુણે જેતું, પરાઈ મૂર્ખતા કાજે, અરે પ્રારમ્ધ તા ઘેલું, ન માગે દાંડતું આવે, રહી નિમોંહી શાંતિથી, જગત ખાજીગરીમાં તું, પ્રભુનાં નામનાં પુષ્પા, પ્રભુના પ્યારી શ્રીવામાં. મીડી વાણી સદા કહેજે; સુખે ના એર તું લેજે, રહે તે દૂર માગે ને ન વિશ્વારે કદી રહેજે, રહે એ સુખ માટું છે; ખધાં છલ ખલ જવા દેજે. પરાવા કાવ્ય માલા તું; પહેરાવા પ્રીતે દેજે.

(ખ) મદાર્કવાળા પદાર્થ હૃદ ઉપરાંત પીવાથી મનની શક્તિ એ તેમજ ઇચ્છા શક્તિ નખળી પડે છે. સ્પરસ્થુ શક્તિ ખગડે છે, અને માસ્સ એદરકાર નવાથી તેના કામમાં ભુલથાપ ખાય છે. મદાર્કવાળા પદાર્થ અતિશય પીષાથીથતાં આખધાં ભયાનક પરિસ્ફામા પીનારાનાં છાકરાં એમાં વિશેષ કરી જેવામાં આવે છે. આવા પીવાના પદાર્થો કંઈ જરૂરના નથી. એ પર પૈસા ઉડાવે તે છે છાકરાંની કેળવણી જેવા ઉપયાગી કામામાં ખર્ચે તા તે વધુ ડહાપણ ભર્મું ગણાય.

7. નીચલાના ગુજરાતી અનુવાદ કરા :

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A bad taste of reading mean books is one of the chief causes of leading young minds astray. Sensational literature creates wicked thoughts suggestive of evil actions. I have seen vicious writings in the hands of many young people. Teachers do not care chough to see what their pupils read. They ought to know that students are not angels but human beings. Boys are boys after all, and as such apt to err and to go wrong.

TAMIL

Paper-Setters—

RAO BAHADUR L. K. ANANTHAKRISHNA
IYER, B.A., L.T.

MM. VEDANTAVISARAD ANANTAKRISHNA
SASTRI.

Examiner-MM. VEDANTAVISARAD ANANTAKRISHNA SASTRI

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. (a) அடியிற் கண்ட சொற்களின் பொருஃளயும் கருத்தையும் 20 குறிக்குக.
- (i) குற்றுங்கடிதல், (ii) சித்தினஞ்சோராமை, (iii) வலிய நிதல், (iv) கல்லாமை.
- (b) கேள்விக்குப்பின் அறிவுடைமையையும் காமலறிதலுக் ுப் பின் இடனறித%லயும் வைக்கக்காரணம் யாது ?
- 2. பதவுரை தெளிவுரைகளுடன் அடியிற் கண்ட குறள்களின் 2) கருத்தை விளக்குக.
 - (a) கடலோடா கர்ல்வ னெடுக்தேர் கடலோடு நாலாயு மோடா நிலத்து.
 - (b) ால்லினத்தி ஹாங்குர் து?ணையில்ஃ நியினத்தி னல்லற் படுப்பதாஉமில்.
- 3. அயோத்திகாண்டம் முதலாவதுபடலத்தின் கருத்தை விளக்கி 20 கம்பரின் மேன்மையை விவரிக்குக.
- 4. அடியிற் கண்ட குறள்களினென்றன் கருத்தை விரைக்து 20 அதைத்தழுவி ஃண்ட ஒர் வியாஸமெழுதுக.

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- (a) பிறன்பழி கூறுவான் றன்பழி யுள்ளுக் திறன்றெரிக்து கூறப் படும்.
- (b) மறவற்க மாசற்ருர் கேண்மை துறவற்க துன்பத்தட் டுப்பாயார் கட்பு.
- 5. Translate into Tamil the following passage:

 We have seen before, how Tughril Khan's attempt to set up an independent kingdom in Bengal met with a miserable failure. Ghiyasu-d-din Balban, who suppressed the revolt with terrible cruelty.

*ppointed his second son, Bughra Khan, as the Governor of Bengal. When Bughra Khan's son Kaikobad ascended the throne of Delhi, Bengal became virtually independent. At first the Muslim suzerainty was confined to North Bengal but the two sons of Bughra Khan, who succeeded him, conquered respectively southern and eastern Bengal, driving away the descendants and successors of Lakshmana Sena from the latter place.

BURMESE

Paper-Setters Prof. PE Maung Tin, M.A. Maung Ba, B.A.

Examiner-Prof. PE Maung Tin, M.A.

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

- 1. ဦးပျည်သည် ဆောက်ပါ စာရီဒိများကို မည်သည့် မေတ္ထာ စာတွင် 15 မည်သည့်အကြောင်းနှင့်စပ်လျဉ်း၍ရေးသနည်း။ ၎င်းတို့၍အဓိပ္ပါယ် ကို တော်ပါ။
- (က) သေနာပတိ၊ ပြည်ကြီးထမ်းခွန်၊ မတ်မင်းမွန်သည်လည်း၊ ကျွန်မမယ်က၊ ကြင်သမျှထက်၊ အထထောင်ရာ၊ ချစ်ပေသည့်လက္ခဏာ ကြောင့်၊ သာယာပျုံရှား၊ နွတ်ချိုပျားနှင့်၊ နှစ်နားငြိမ့်ကြည်၊ မိုန်ခဲ့သည် မှု၊ မရှည်စေရ၊ ရက်ကို ထထျှင်၊ နှစ်ထကျော်ကျော်၊ သည်မျှသာမျှော် နှင့်ထော့၊ ကြင်တော်သက် နှီ၊ မယ်တိုထံသို့၊ မြန်မြန် ဆောက်ထည်၊ ပြန်ခဲ့စည်ထု၊ ထည်ရည်စံကြုတ်၊ နံ့သာနွတ်ဖြင့်၊ ကုရဒ်ဝတ်ထွာ၊ သူ့ကြင် ရာကို၊ မှာခဲ့သည်ထချက်။
- (၈) ပြီးတံသွယ်ရွှေ ကျီးသည်၊ ပြေခဲ့လက်ထီးဝဲ ထောင်ကာ နွှတ်ဆာပေါင်သန္တာနှင့်၊ သာယာစွာဖြည်ကြွေးထျှင်၊ အဝေဒကချစ် သသူ၊ ထာထော့မည်နိမိတ်ယူထော့၊ ရှေးထူတို့အမှတ်ထည်း၊ နိပါတ် နှင့်မတွဲ၊ ဤထုံးကို ထက်စွဲ၍၊ ရွာကွဲရုပ်ဝေး၊ တကျေးမျိုးထော့၊ ပင်း မြို့နေတို့ကို၊ မကွေပေါင်းတောင်၊ အထုုပျော်ရအောင်၊ နိမိတ်ထောင်ကျီး ညိုထည်၊ နှတ်၍သံဧးမြနှင့်၊ ခြေကြွကာရပ်ဆိုင်း၊ သာထာထိုင်းလာ ထမ်းသို့၊ မျှော်ထမ်းထျက်နေနှင့်ပါထော့မည်။

2. ဦးပုညသည်အဘယ်ကြောင့်ကျော်စောကြောင်းကိုဆဋ္ဌန်ဆင် 10 မင်းဝတ္ထုမှအထောက်အထားပြ၍ အောက်ပါစာ ပိုဒ်၍ အခ်ပြုယ်ကို တော်ပါ။

သည္သာန္တတ်ကျေး၊ ထုန်ဆွေးတရှိ၊ ကောဒိဋ္ဌာပွင့်၊ ထျာထျာရင့် သော၊ ကြက်ခင်းဥတျောင်၊ ဝန်းရောင်ထွင်ထွင်၊ လောဟ်ထင်မဏ်ရထ်၊ ထွတ်ထွတ်နီမြန်း၊ မင်သခန်းအသား၊ ပတ္တမြားကျောက်မွန်၊ ထိန်း တန်သပြာ၊ ကမ္ပလာရှုန်းသစ်၊ တကျွန်းဖြစ်ဖြင့်၊ ဝန်းရစ်ပတ်ခြံ၊ ရံသ ကဲ့သို့။

- 3. ဆောက်ပါစာ ပိုဒ်တ္ရိဤအခ်ပ္ပါယ်ကိုဆိုလိုရင်းဆာတော်ထင်ရှား 15 ဆောင်စကားပြင်ရေးသားပါ ။
- (က) ဆွေမျိုးပေါက် ဘေဝါ၊ မထော်သည်မှန်သော်ထည်း၊ ဝန် မထန်သည့်စစ်ထဲ၊ ထမင်းမထန်သည့်ထမနဲကဲ့သို့၊ တောထဲကသေး ထည်း၊ သေဘေးကိုထားပေသည်၊ ကိုယ်ထဲတသွေးထည်း၊ သေဘေး ကိုပ္ပါးပေသည်၊ အဆွေမတူ၊ ောက်တေ့သော်သည်း၊ သူတော်စင်မှန် သောကြောင့်၊ တိရည္သာန်ဖြစ်ထူဟ်၊ သူအသက်ကို၊ ဆက်ဆက်ကယ်ဘူး သည်ဘဝများစွာ၊ လူဖြစ်ပါထျက်၊ အမာဘသတ်၊ ဘမင်းမြတ်ကို၊ သတ်ဖြတ်ညှဉ်းဆဲဘူးလေသည်။
- (ခ) သိဏ္ယာန္ႏိုန္တိတာသမွာ၊ ဆက္ခ ရာရှစ်ခုဖြင့်၊ စက္ကဝါ ငွေသျ၊ ပြုချင်တိုင်းပြုသော်လည်း၊ ဘေးဥပဒ်မတြံ့၊ စိတ်လိုတိုင်းပြည့်စုံတျှင်၊ ဤ ယူဆုံ ဆော်တွင်းထွင်၊ ဤချင်းနှင့်သံပုရာ၊ ထမင်းတျွေးတရားနား ကဲ့သို့၊ သူသာတွင်အကောင်းဆုံးတု၊၊ နှထုံး ကဆစွဲပြု၍၊ ခပ်ပုပုတုထိ တိုတို၊ ချိုထာသည့်မေထွာရေပြင့်၊ မြို့ရွှေ လေဘူမီဝယ်၊ ပဝထ္ထိ ဇာဂ်မ၊ ထာဝရာရပ်ဟောင်း၊ ပန်းထောင်းမြို့ချက်မြှုပ်၊ ကျွန်ပ်မောင်မှိုင်း၊ ထုတ် တိုင်းကြားရောက်လိုက်ပါသည်။

- 4. (က) ဦးကြင်ဥရေနသားသည့်ပဒေသာထီချစ်းများ ကိုသင်ကြား 15 ရခြင်းမြှင့်ဆရာကြီးဦးကြင်ဥအပေါ် မှာသင်အဆယ်ကဲ့သို့ထင်မြင်သ နည်း။ ၎င်းဆရာကြီးသည် ပညာရှိ အများအရေးယူထိုက်သောကဗျာ ဆရာကြီးတဦးဟုတ်သင့်မဟုတ်ဆင့်ကိုအကြောင်းထုံထောက်စွာနှင့် ထင်မြင်ချက်ကုံးပါ။
 - (ခ) အောက်ပါစာပိုဒ်၍အဓိပ္ပါယ်ကိုစကားပြင်ရေးသားပါ။

ြို့စဖူးမြင်ဘူးမှယုံစဖွယ်။ ။မြှုနီ ဝါပြာထစုနှင့်၊ ခရု ထွေထာ ထန်း၊ ကမ်းကွေပတ်လယ်။ ။ရွှေမင်တံထံပချုပ်နှင့်၊ ဟန်ရုပ်ပြသွယ် လွယ်၊ နတ်မယ်သျှဆံထိုး။ ။ဝင်ကစွတ်၊မြင်ဆွတ်ကကြည့်သို့ရာ၊ထိုဆို ယာသည်၍ဘွားနှင့်၊ အဌါဒစန္ဓာမြှောင်ရတယ်၊ ဆန်းခေါင်ထိမျိုး။

- 5. ပြန်မာစာစီ ႏိုးရေးသား**ရာ၌ဥပစာစကား ကိုအသုံးပြုခြင်း 10** ဤအတ္ဖြင့်ကျဖူ**ုး**ကိုဥ**ါယရက် နှင့်ထက္ကပေါ်ပြပါ။ ။**
 - 6. Translate into Burmese :--

15

In primitive times, when aggression and defence were the leading social activities, bodily vigour with its accompanying courage was the desideration; and then education was almost wholly physical; mental cultivation was little cared for, and indeed was often treated with contempt. But now that our state is relatively peaceful, now that muscular power is of use for little else than manual labour, while social success of nearly every kind depends very much on mental power, our education has become almost exclusively mental. Instead of respecting the body and ignoring the mind, we now respect the mind and ignore the body. Both these attitudes are wrong. We do not yet realize the truth that, as in this life of ours the physical underlies the mental, the mental must not be developed at the expense of the physical. The ancient and modern conceptions must be combined. Perhaps nothing will so much basten the time when body and mind will both be adequately cared for, as a diffusion of the belief that the preservation of health is a duty. Few seem conscious that there is such a thing as physical morality. Men's habitual words and acts imply the idea that they are at liberty to treat their bodies as they please.

- 7. Write an essay in Burmese on one of the following: 20
 - (a) ရာဇာဝင်တတ်ခြင် ${f t}$ ဏ်ဆကျိ ${f t}$ ကျေးဇူး။
 - (b) မြန်မာနွိုင်ငံကူးလန်းရောင်းဝယ် ရေး။
 - (e) မြန်မာထူမျိုးတိုငတ်ပုံဆင်ပုံကိုပြောင်းထဲသင့်မသင့်ကြောင်း။

URDU

Paper-Setters— MAULVI SYED MD. HAIDER.
MAULVI MD. ISHAQUE, M.A.

Examiner—KHAN SAHIB REZA ALI WAHSHAT.

Candidates are required to give their answers in their own words
as far as inacticable.

The figures in the margin indicate full marks.

Answers to be given in Urdu.

1. Either, Discuss the influence of the Arabic and Persian 10 languages on Braj Bhāshā.

Or, Show that Urdu poetry may be said to begin when the Bhāshā meter gave way to the Persian metre.

or discuss the soying: 10 میں ant سودا or discuss the soying: 10 بگرا گریا مرثبه خوال

3. Write explanatory notes on any two of the following couplets:— 15

ے ستوں کیا ہے کوھکی کیا ہے ۔ عشق کی زرر آزمائی ہے

^(ہ) نارک نے تیرے صید نہ چھوڑا زمانے میں

ترك ه مرغ قبله نما أشينانے ميں

چلے میں کھینم کھینم کیا قد کو جوں کمان

15

تیر مراد پر نه بتهایا نشانه میں

4. Criticize the following state of Muḥammad Ḥusain Azād :-- 10 أردو كي ابتدائي تصنيفيس نظم سے شروع هوئيس

5. Criticize the following view of Mir Taqi regarding Khwaja 10

میر صاحب نے اُنہیں آدھا شاعر شمار کیا ہے

6. Translate into Urdu:--

Al-Ma'mūn, in a letter to the Emperor Theophilus, expressed his desire to visit Constantinople if his public duties would have permitted. He requests of him to allow Leo the mathematician to come to Baghdad to impart to him a portion of his learning, pledging his word that he would restore him quickly and safely again. 'Do not,' says the high-minded caliph, 'let diversity of religion or of country cause you to refuse my request. Do what friendship would concede to a friend. In return, I offer you a hundredweight of gold,

a perpetual alliance and peace. True to the instincts of his race and the traditions of his city, the Byzantine sourly and insolently refused the request, saying that 'the learning which had made the Roman name illustrious should never be imparted to a barbarian.'

7. (a) Give three idiomatic uses of the following words:

6

(b) Derive any four of the following:-

4

20

8. Write an essay on one of the following subjects:

(a) The effect of wealth on national character.

(b) Knowledge is power.

(c) Zauq as a poet: his place in Urdu poetry—the peculiari-

MODERN TIBETAN

Paper-Setter and Examiner-Mr. Satkari Mukherjee, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate the following passage into Modern Tibetan :-

40

Meanwhile Cedric and Athelstane, the leaders of the troop, conversed on the state of the land, on the dissensions of the royal family, on the feud- and quarrels among the Norman nobles, and on the chance which there was that the oppressed Saxons might be able to free themselves from the voke of the Normans, or at least to elevate themselves into national consequence and independence, during the civil convulsions which were likely to ensue. On this subject Cedric was all animation. The restoration of the independence of his race was the idol of his heart, to which he had willingly sacrificed domestic happiness and the interests of his own son. But, in order to achieve this great revolution in favour of the native English, it was necessary that they should be united among themselves, and act under on acknowledged head. The necessity of choosing their chief from the Saxon blood-roval was not only evident in itself, but had been made a solemn condition by those whom Cedric had entrusted with his secret plans and hopes. Athelstane had this quality at least, and though he had few mental accomplishments or talents to recommend him as a leader, he had still a goodly person, was no coward, had been accustomed to martial exercises, and seemed willing to defer to the advice of counsellors more wise than himself. Above all, he was known to be liberal and hospitable, and believed to be good-natured. But whatever pretensions Athelstane had to be considered as head of the Saxon confederacy, many of that nation were disposed to prefer to his the title of the Tady Rowens, who drew her descent from Alfred, and whose father having been a chief renowned for wisdom, courage, and generosity, his memory was highly honoured by his oppressed countrymen.

2. Either, (a) Give a short description of Zo-wo Atisa's activities and achievements in Serling.

Or, (b) Write a short sketch of the story of Do-wa-sang-mo.

15

3. Explain with reference to the context the following extracts in your own language:---

(a) वृद्धिस्यगुद्धम्बद्धिःकुःसर्द्धभ्यस्यःसःवद्दिः । स्वृद्धस्यद्धिःकुःर्वःकुद्दुःवयम् । स्वृद्धस्यद्धस्यम् । स्वृद्धस्यस्य स्वृद्धस्यः स्वृद्धस्य ।

भ्रत्रेट्ट.चक्ष.टचोट.चेटेट.चेट्येचका.सट्ट.चे.स्र.से.स्र.सं (१) इचाल.च∋ट.चोठ्रेच.टे.चेट्येचका.सट्ट.चे.स्र.सं.सं

4. Write an essay in modern Tibetan on any one of the following subjects:—

(a) The necessity of female education in Tibet and its adjoining districts.

(b) The necessity and benefits of western culture among the Tibetans.

(c) Modern civilization in its conflict with the ancient civilization of Tibet and the chances of rapprochement between the two cultures.

ALTERNATIVE PAPER IN ENGLISH.

- ----

Paper-Setter and Examiner—Prof. Herambachandra Maitra, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Α.

Answer TWO only of the following questions.

- 1. Compare and contrast the character of John Henry Newman with that of Henry Edward Manning.
- 2. 'In the real Miss Nightingale there was more that was interesting than in the legendary one; there was also less that was agreeable.' Show how far this is justified by her career.
- 3. State clearly what were the aims of Dr. Arnold as head master. Have his ideals of a liberal education met with general acceptance?

B.

Explain fully :--

(a) Virtue may be assailed, but never hurt, Surprised by unjust force, but not enthralled: Yea, even that which Mischief meant most harm Shall in the happy trial prove most glory. But evil on itself shall back recoil, And mix no more with goodness, when at last.

10

25

25

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Gathered like scum, and settled to itself, It shall be in eternal restless change Self-fed and self-consumed. If this fail, The pillared firmament is rottenness, And earth's base built on stubble.

- 10 (b) Blind mouths! that scarce themselves know how to hold A sheep-hook, or have learnt aught else the least That to the faithful herdman's art belongs! What rocks it them? What need they? they are sped; And, when they list, their lean and flashy songs Grate on their scrannel pipes of wretched straw: The hungry sheep look up, and are not fed, But, swoln with wind and the rank mist they draw, Rot inwardly, and foul contagion spread; Besides what the grim wolf with privy paw Daily devours apace, and nothing said.
- 5. Two only of the following questions are to be answered: 'Surely no man could have fancied that he read Lycidus

with pleasure, had he not known his author.' Do you agree? Give reasons for your answer.

(b) Refute, after Milton, the sensualist's plea for selfindulgence.

(c) Write a brief exposition of the doctrine that 'virtue alone is free.'

SANSKRIT HONOURS

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M.A., PH.D. MR. BANAMALI CHAKRABARTI, M.A.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

10 1. Give the substance of the speech of the Yudhishthira in Canto I of the Kirātarjunīya. What effect had it on the minds of Yudhisthira, Draupadī and Bhīma as manifested through their speeches?

2. Translate into English:—	1
(a) विषमोऽपि विगाद्यते नयः क्रततीर्थः पयसामिवाद्ययः।	
स तु तव विशेषदुर्जभः सदुपन्यस्यति क्रत्यवस्य यः ॥	
(b) प्रभव: खलु कोषदण्डयो: क्षतपञ्चाङ्गावनिर्णयो नय:।	
स विधेयपदेष दचतां निर्यातं लोक इवानुकध्यते ॥	
(i) Explain ज्ञाततार्द: in extract (a). In what sense is it used	4
when applied to नेब: ?	
(ii) Expound the samasa in क्षतपञ्चाङ्गविनिर्णय: in extract (b)	4
What are the पञ्चाई's ?	
(iii) Point out the appropriateness of the simile contained in extract (b).	4
3. Expand in Sanskrit with reference to the context:	!
विचित्रहणाः खलु चित्तवृत्तयः,।	
4. Scan the following:	
विदर्धात मीपधि मन्सिद्धणानि ।	,
5. Translate into English the following extracts:	•
(व) म चात्राहणाने नापन्नत्वादु दुःखिल्मनुमातुं शकार्त। धीरादिष्वमै-	
कान्तिकत्वात् इत्याश्येनाह। चित्रवृत्तयो विचित्रक्षाः।	
(b) यदापि अव प्रसहनस्य असङ्गतः अधिपूर्व्यात् करीतेः अधः प्रसहने	
इत्यात्मनेपदं न भवति प्रसन्दन परिभवः इति काशिका। तथापि अस्याः कर्रेभिप्राय-	
विवचायामेव प्रयोजनत्वात् कर्राभागयं स्वरित्रज्ञितः इति भात्मनेपरं प्रसिद्धम्।	,
 In what cases is the killing of an enemy forbidden by Manu? Translate into English:— 	10
(a) तैं विद्येभ्यस्त्रयां दियां दण्डनीतिस्र शास्त्रतीम ।	
मान्वोचिकीचात्मविद्यां वार्त्तारकांच लीकत: ॥	
(b) वकविचनग्रदर्शन् सिम्हवच पराक्रसत्।	
हक्तवज्ञावल्म्येत श्रश्चाच विशिष्यंतत् ॥	
8. Comment on the following after Kullūka:—	
एता: प्रकृतयो मूर्ल मण्डलस्य समामत: (•
चष्टी चान्या: समाख्याता हादशैव तु ता: स्मृता: ॥	
9. Translate into Sanskrit :	2
(a) By truth the earth is supported, by truth the sun gives heat, by truth blows the wind, on truth all is established. (b) But once do kings give orders; but once speak the wise; but once is given a maiden in marriage; all these things are done	
but once. (c) One noble son, good and wise, illuminates the whole of his kin, as the moon the night. (d) From association with the good fools become noble, but from association with fools noble men remain pure; the earthen vase	
draws to itself the odour of the flowers therein, but the flowers absorb	

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SECOND PAPER.

DRAMA.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Either, Two different sources were available for the plot of the Ratnāvalī. To which of these was the author indebted for his plot? Was the incident of the monkey-raid an original idea of the author, or was it borrowed from another source?
- Or, There were difficulties in the way of the alliance of king ভ্ৰমৰ with ব্ৰাৰ্থী. How were these difficulties surmounted, and how was the plan arranged which eventually brought about the union of these two? What part did the introduction of the magician play in this plan?
- 2. Either, Write down in a connected form the incidents narrated in the Introduction (ঘৰিষ্কা to the sixth act of the Abhijnāna-Sakuntalam.
- Or, Who was বাৰ্দনী? What kind of confidential mission was entrusted to her by সক্তবাৰা? With what measure of success did she discharge this mission? What was the object of the mission?
- 3. Give in your own words the substance of any two stanzas, selecting only one from each of the following groups, with clear reference to the context of each:—

GROUP A.

- (a) संप्राप्तं मकरध्वज्ञेन मधनं त्वत्ती मद्धै परा
 तद् युक्तं बहुमार्गगां मम पुरो निर्लेज्य वोदुस्तव।
 तामिवानुनयस्वभावकुटिलां हे क्षणाकण्डग्टहं
 मञ्जेत्याह कथा यम द्रतन्या लक्षाय पायासा वः॥
- (b) जीलावधूतपद्मा कथयनी पचपातमध्यकं न: । मानसम्पेति अधं चित्रगता राजहंसीव ॥

GROUP B.

- (a) सनम्बसीशीरं प्रशिधिलस्यासैक उस्यं प्रियाया: सामाधं तटपि कमनोयं वपुरिदम्। समसाप: कामं मनसिजनिदाधप्रसर्थो-र्भत् गीषास्थैवं सुभगमपरासुं यवतिषु॥
- (b) यद्यत् साधुन चित्रं स्थात् क्रियते तत्तदस्यया । तथापि तस्या लाबस्यं रेखाया किस्विदन्वितस्॥
- (i) In Group A (a) distinguish grammatically between the forms ন্যাৰ and ন্যাৰ

Some of the editions read बोद्धं instead of बोद: in the second line of extract (a); which reading do you prefer and why?

	ii) In Group B (a) give the alternative form of सनीस्त्र, 5 vour reasons.
	Derive the word যুবনি, and give its other forms, if possible. (iii) In extract (b) what is লাৰ্ছ and how would you 2
4. T	Franslate into English any two of the following extracts, 8 e context in each case:
(a	र) किनंपग्नस्य रुचंन इन्ति नयनानन्दंविधत्तेन किनं ब्रिखंवा अभवकेतनस्य कुरुते नालीकमावेण किम् γ
	वक्तृं स्टी तव सत्ययं यद५र: शोतां ग्ररम्युदाती दर्प: स्यादस्रतन चेदिह तदप्यस्ये व बिम्बाधरे ॥
(1)	b) चनान्नातं पुर्चा किसलक्ष्मत्वनं करक्ष्टै- रनासुक्षं रत्नं सधु नवसनास्वादितरसम् चस्राख्यं पुर्ख्यानां फलमपि च तद्रूपसनघं न जाने भोक्तार कमिस्त समुपस्थास्यात विधि:॥
(0	े इदमुपनतमेवं रूपमक्तिष्टकान्ति प्रथमपरिग्टहीतं स्वास वित्यत्यवस्यन् । भ्रमर इव विभाते कुन्दमन्तस्त्रवारं
(विम्बाघरे.	न च खल् परिभोक्तुं कैव शक्तामि हातुम् । i) In extract (a) analyse the compounds वक्तोन्टी and 4 Account for the third case-ending in अस्त्रीन
sing.	मं) In extract (c) conjugate the root in हार्नु in लीट् second pers. 3
_	मिं।) Give the senses in which उप + स्था takes the श्रात्मनेपदी 3
	ecount for परसौपद in ससुपस्थाम्बति in extract (b).
possible compound	Paraphrase any one of the following stanzas, using as far as words other then those in the texts, and breaking up the is:—
(4	a) प्रत्ययमञ्जनविशेषविविकाकान्तिः
•	कौसुभार।गरुचिरस्प्रदंगुकान्ता
	विभाजसे मकरकेतनमर्श्वयन्ता
	बालप्रवालविष्ठिपप्रस्वा लेनव ॥
(8	b) विच्छित्तिश्चेर्यः सुरसुन्दराकाः
•	वर्षेरमी कल्पनतांग्रकेष्।
	संचित्त्य गीतिज्ञमर्मथ्यस्यं
	दिवीकसस्तर्भारतं लिखलि ॥
texts?	What have you come to learn about the following from your 8
	(a) The hospitality of the ancient Hindus. (b) Reading, writing, and painting—as accomplishments

(c) Intercourse with countries beyond India.(d) Effects of physical exercises.

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- 7. Who is इंसपिटका and what feature of दुख्यल's character 2 does her song throw light upon?
- 8. Expand the thoughts contained in any three of the following extracts:—
 - (a) श्रत्यन्तमाननीयेष्वपि निर्नुरोधवृत्तिस्वामिभित्तवतम्।
 - (b) अनातक्रमणायानि भेयांनि प्रदक्षिणोक्रत्य भगवन्तं गन्तिनक्कांनि ।
 - (c) स्फ्लिङ्गावस्थ्या विज्ञिद्धापेच द्रव स्थित:।
 - d) सर्व्वमिप भीटारकस्य मध्यवद्वारे एव पर्यवस्ति।
 - (e) मृत्युरंप ने साच्यने. यस्य हि रि विरिप पुरुषकारमेवं वर्धयन्ति।
- 9. Write a short note on कीशानी mentioned in the Ratnāvali and on इंसक्ट found in the Sakuntalā,
 - 10. Translate the following into Sanskrit: -
- (a) When the king and his son Rāma were returning home after the marriage of the latter to Sītā, he was alarmed by the illomened sounds uttered by certain birds. Then a hurricane shook the earth, uprooting the trees, and thick darkness veiled the sun. Finally. Parasu-rama appeared, fearful to behold, brilliant as fire, with his axe in his hand.
 - (b) To injure none by thought or word or deed, To give to others, and be kind to all -This is the constant duty of the good, High-minded men delight in doing good, Without a thought of their own interest.

THIRD PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any two of the following extracts:-
- (a) तथाविश्रं च व्यतिकरं तत्ताद्धमिष्वसमप्रतिविश्यमपूर्वभिव दुर्ग्यहोपक्रमस्वरूपसुपलस्य बल्वतः। विग्रहातस्य तदनुप्रवेगकारित्वम्य नातौ निर्णोतममोति
 नयविचचणः चणिनेव सर्वापेणपुरःसरा धर्मपालः प्रतिपदा सेवासुपनती बसूव।
 कलादित्यस्त तं सम्पितापचारमव्स्तिनवाग्रमग्रे विधाय दुर्धरा स्पत्रव्यापारणप्रित्रमाणसा
 निल्तिः समरपासुभिः कर्दामतेन वपुषा हार एव सूप्ष्रसंघारतिकरीरकोटिना सस्त्रीन
 कत्रवामः सर्भसमाहत्य समालिङ्गितीऽग्रजन सविनयसुपाविधतः।
- (b) हडा च तां सिवसायम् चाः । मृद्रमागतोऽस्ति नन्टावटपुरादियं भगवतो 15 दश्यभियीं जनैराव्यायनं निम्बुरहो सं प्रवृत्तरायहस्य. भनतु सिमनेन प्रस्ततं तमेव गविषयामि तावदित्युभयतौरवार्भषु तम घनपतिको पेटकं व निष्णं निष्णयः च चुरालोका-मानोऽपि समन्तान्नमकापि हष्टः शकुनिरितय भगवान् भवनैक च चुरादित्यः संहत्यः दिवस्विसारमपरस्यां दिशि प्रयागवान् । च च तथा हथागते क्रोशे एवं भावतवान् । साध्यमसाध्यं च विषयमनाक्षीच्य विचरतां विकलाभवत्यं पृसां प्रयासः । तदि-

तदितमहीयसी मोइस्य विलिसितं यसादिवसुन्यदाते विविक्तिमामध्येकदेखयैव परिश्वंशी मति:।

- (c) उत्याय च प्रविद्यान्तरध्यासिता मरालतूलकोमलं तत्यमादाय भूयोऽपि 15 मत्कारमलात् पटमविद्योक्षत्य मां क्षतादरमपृच्छत्—वयस्य ताराविल ! जानांस क एष इष्ट: कुतस्विद्याय प्रत्यचमालेख्येन वा त्वया दि बहुशस्वित्य विश्ति हष्टास्वि भुवनविवर-वित्ती युवान:, तेषां मध्ये कस्विद्युन। कृपेण संवित्तिभीत भवत्या दृदयस्य, कन्द्रे- लुक्षकस्ययं दुरात्मा सुदृद्धिमां मनाहाः रणीं मूर्तिसुपद्धी में भाटत्याज्ञहार क्षणसारं लोचनहृत्वे प्रतिविध्यक्ष प्रचलक्ष्यं मानसमिदानों कथ्य किसवंगते प्रतिविध्यक्ष प्रचलक्ष्यं मानसमिदानों कथ्य किसवंगते प्रतिविध्यक्षिति ।
- 2. Discuss fully the grammatical points raised in any four of the 12 following:—
 - (a) भाषािख: क्वातिगभीर: ।
 - (b) न्यसाचरा धातुरसेन यत ।
 - (c) सहैव दश्म: पुतै: भार वहात गईभी।
 - (d) नृत्तिं हाय नम्बूर्म: ।
 - (c) प्रत्यचाभि: प्रपन्नस्तनुभिरवतु व:।
 - (f) स सन्ततं दर्शयते गतसाय:।
- 3. Explain fully any four of the following, giving examples 16 wherever necessary:—
 - (a) कारक।
 - (b) समास।
 - (c) उपपद्विभक्ति and कारकविभक्ति।
 - (d) प्वद्भाव and क्रमप्रवचनीय।
 - (e) घष्ठी as a कारक and when not a কাৰে।
- 4. Answer any three of the following, stating full grammatical 12 reasons and references in each case:—
- (a) Under what conditions does a word denoting and take the second, third, fifth and seventh cases?
- (b) Is there any way in which a শ্বহাটাৰ compound can be distinguished from other Samāsas? What are the difficulties?
- (c) How can you justify the first case in বিছ: in বিছা নালবৰ:? Explain the difficulty that may be anticipated and the way in which it may be removed.
- (d) How do you explain the first case in লব: in লব: ঘছনি according to the rules of Paṇini's grammar?
- 5. Give an account of the essential features of Sanskrit lyrical 10 or didactic literature.
- 6. Either, Give an account of the development of prose romances 20 and champus in Sanskrit.
 - Or, Trace the development of the theories of Sanskrit poetry.

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FOURTH PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Describe, in simple Sanskrit or English, the scenes as represented in either (a) or (b):—
 - (a) नारीणामपनुनुद्रं देहवेदा-नारीणामलमिलला हिरण्यवाप्य: । नारीणामनलपरीतपत्रपृथ्यान् नारीणामभवदपेत्य शक्ये वचान ॥
 - (b) बभी मक्तान्तिकतः समुद्राः वभी मक्तान्तिकतः समुद्रः। वभी मक्तान्तिकतः समुद्राः वभी मक्तान्तिकतः समुद्राः॥
- 2. What word should be understood after उपेल in (a) of the above extracts to make the sentence grammatically complete? Give reasons for your answer. Explain the meaning of the word समुद्र in each foot of (b) above.
 - 3. Translate into English:-
 - (a) एक: पदाति: पुरुषी धनुमान् योऽनेकसायानि विश्वद्गानः । रच:सहस्राणि चतद्देशादौँत् कातव वो सानुषसावश्दाः॥
 - (b) ब्रह्मार्षं भिर्मृत्मयं सर्द्वैः सन्तापिते रावि वरचयाय । नराक्षतिर्वानरभैन्यशासी जगत्यज्ञय्यो विह्नितेऽस्यपायः ॥
- (t) Who is the speaker of these verses? Explain the special significance of all the adjectives in (a).
- (ii) Derive বারিষ্থ and মজতা in (b). Give the optional derivative form of বারিষ্থ and distinguish between মজতা and মজতা with reference to the grammatical rule.
- 4. Either, Quote, or give the substance of, verses where Vibhişana shows the impossibility of a successful employment of the expedient of dissension (মিহ) to win over the allies or any ally of
 Rama.
- Or, Quote, or give the substance of, a verse in which the same speaker's argument is based upon the following text of Manu:

व्यमनस्य च सत्योय कष्टं व्यसनस्चति । व्यमनस्योधो वर्जात स्वर्णत्यसमी स्त:॥

5. Refer to the context and explain any two of the following:-

को वा हैतरनायाणां धर्मा असान वार्कतम ॥ सिध्यन्ति कार्य्याणि समन्दितः न ॥ प्रजात मलेऽधिकता न शौर्यमः॥ (c) 6. Give the purport of the following in Sanskrit or English:-6 हिजीन तेनाचतवार्ध भागवाया सहासनीमीहमलीमस'ख्या । **अलभ**वैटग्टाविलासलीलया धिया नबडेयमतिहयी कथा॥ खिस्सी Some scholars explain कथा in the above 2 verse as alluding to certain more ancient romances; if so, name the works which might possibly be alluded to by its author. Translate into English any two of the following extracts. 12 excluding the underlined words in the same :--अवनिपतिस्त... प्रतीहार्या निर्दिग्यमानां तासुनादहलिहलापकर्षेण-भयप्रपत्नायितामिव यसनां प्रावधीसव घनकेश जालामर्ग्यभूमिमिव दिव्यथोषितिमित्राकुलीनां मधुमासकुसमस्मृहिसिव विजाति यचाधिपलच्नीमित्रालको-हासिनीमचिरीपद्धद्रशीवनाम तिश्यकृपाक्ष तम न प्रवलीचनी टटर्श । (b) श्रत्यायतय यस्मिन दश्यस्तश्रात्नियातितो योजनबाहोबोहरगस्यप्रमाट-न्।गतनहवाजगरकायम् । मकरोद्धिजनस्य । जनकतन्या च भवी विरह्नविनीटनार्थ-सर्जाभ्यन्तर लिखिता रामनिवामदर्भनातमुका पुनरिव धर्णीतलाटल्लमुन्ती यव वनचरेरद्याष्ट्रालीकार्रः। (c) तस्मैंबंबिधस्य पद्ममरसः पश्चिम तीर्र दर्थोधन द्वीपनचित शक्तनपचपाती निल्निनाभ इव वनमालापगरी नवजलधर इव नभमि दर्शितीव्रतिरालीकनप्रासाट इव वनदेवतानां नायक इव मुर्ववनस्पतानां मुख्य विश्वस्य शाखाबाहुभिक्पगृद्धीव विश्वाठवी-मवस्थितो महान शान्यलीहर्चः । Select the synonymous adjectives in the above extracts, 8 and explain how they also qualify the underlined words in the same. (n) Explain the allusions in the parts of the above extracts marked A or B below :-A. उनाद... यस्नाम [Question 7 (a)]. B. दशरथस्त · · न इषाजगरशङ्गम् [Question 7 (b). (iii) Explain the propriety of प्रकरिय in (b). Give the exact meaning of उपग्रा in (c). What relation between शासनीहर and विश्वाटवी is poetically suggested? Render into idiomatic Sanskrit either (a) or (b):--25 Then flashed the giant's eye with fire Like that which lights the funeral pyre.

Forth from his palace, at his hest, Twice forty thousand warriors pressed. They saw Hanuman near a porch, And, thick as moths around a torch, Rushed on the foe with wild attacks Of mace and club and battle-axe. As round him pressed the Rakshas crowd, The wondrous monkey roared aloud, That birds fell headlong from the sky: Then spake he with a mighty cry: 'Hanuman I, the Wind-God's seed: Beneath this arm the formen bleed. I fear not, unapproached in might, A thousand Ravans ranged for fight. I will, before the giant's eyes, Their city and their king chastise.'

(b) The Wind-God's son a temple scaled Which, by his fury unassailed, High as the hill of Meru, stood Amid the ruins of the wood; And, in his fury thundered out Again his haughty battle-shout: 'I am the slave of Kosal's king Whose wondrous deeds the minstrels sing. A thousand Vánar chiefs like me Roam at their will o'er land and sea And all, unconquered in the fray, Our King Sugriva's word obey. Backed by his bravest myriads, he Our warrior lord will cross the sea. Then Lańká's lofty towers, and all Your bests and Ráyan's self shall fall.

FIFTH PAPER

Candelates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

SEXUN questions only are to be attempted, of which Question 1 is compulsory,

1. Render any four of the following into English, showing in 16 brackets the original words after their equivalents in your translation:

(त) अभीवनं लगने श्रेयक्षं इरग्यशस्य यमती हसन्तम् । प्रास्थाद्रथं सविता चित्रभानुः कषा रजांमि तिववीं दथानः ॥ (b) जिल्लां नुनुद्रेऽवृतं तयां दिशासिञ्चतुः गीतमाय तृषाजी ।
श्रा गच्छन्तीसवसा विवधानवः
कामं विषय तर्पयन्त धामिभः॥

(c) यं स्ना पुष्क न कुह सित घोरम्
छतेमाइनैंवा असीत्येनम्।
सी अर्थ: पृष्टीर्विज द्वा मिनाति
यदसी धन् स जनास इन्द्र:॥

(d) अनुमीवास रळेग मदन्ती

मितज्ञ वो विरम् द्वा पृथिव्या: ।

श्वादित्यस्य व्रतसुपिच्यक्ती

वयं सिवस्य सुमती स्थाम ॥

(e) स सुष्टुम्। स ऋकता गुणीन

वलं करी ज फिल्म् ग्रेबिण ।

हण्डस्पतिकस्तिया ह्रज्यम्टः

कनिक्रददावश्रतीकराजत्॥

(f) पूर्क तरेनी वनग टिटच-पी एमि चिकित्वो विष्टकम् । समानसम्मे क्वयं खटाइर्

भगं ह तथं वर्षा द्वाति॥

^{2.} Describe the nature and function of the various deities addressed in the above six Rks.

14

14

14

15.

14

3. (a) Name and specify the peculiarities of the metres of these 14 six Rks. (b) Re-write Rk (c) in the Pada form, showing the proper accents. 14

4. Write full mythological notes on Rks (b) and (c).
5. Paraphrase the following in classical Sanskrit according to Sāyaṇa, and write brief notes in English where different interpretations have been proposed by European scholars:—

इवौमभिईवते यो इविभिर्

भव सोमेभी कुद्र' दिषीय।

मृदूदर: मुहबो मा नो मुखे

यम्: स्रिपो रीरधनानायै॥

6. (a) Translate freely into English:-

विश्वीन किमिति षडचं पञ्चदशं मूत्रां दैधैतमसं वैष्ट्रभं देशावम। श्रवातु-क्रमणिका। विणी: षड्रेणवं हीति। अभिप्रवषड्डेष्ठवयोषु हतीयसवने सीमहञ्जाव-च्छावाकस्य स्त्रोमातिश्ंसनार्थंमिदमादिमुक्तइयं विनियुक्तम्। स्त्रोमे वर्धमान इति खर्छे सुचितम । विष्णीतु कमिति सुत्ती परी मावयित्यच्छावाक इति । तथा हतीयसवने सोमातिरेक उत्तरोत्तरसंस्थोपगन्तव्या चातिरावात्। ततोऽप्यतिरिक्ते तद्रथंमेव बस्त सुपजनयितव्यम्। तत्रैतदेव मूत्रां सामातिरेक इति खण्डे मुवितम्। महा इन्द्री व्यक्तिणोर्वं कमिति। भाग्निमारुतशस्त्रे भागा विनियत्ता। भाष्य यथैतमिति खार्छे

(b) Annotate all the important words and names occurring in the passage quoted in (a) of this Question.

मुचित्स। विण्णोर्नुकं वौर्य्याणि प्रवीचंतन्तुंतन्वन्जसो भानुमन्बिहीत।

7. Comment on the peculiar forms of Vedic grammar occurring

in any four of the Rks cited in Question 1.
8. (a) Show in what way the language of the Rgreda differs from classical Sanskrit.

(b) Point out the uses of the Vedic subjunctive.(c) What are the phonetic peculiarities of the Vedic dialects?

What do you think to be the age of the Rgveda? 10. Give a brief account of the Akhyana or Samvada hymns in the Raveda.

SIXTH PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group A (Grammar).

Answer any FOUR from GROUP A.

1. Explain the following sütras with examples:-खतन्त्रः कर्ता। तुमर्याच भाववचनात्। षात्मगय। न कीपधायाः। जातेस ।

20-31

2. (a) .Is there any difference of meaning between पुचाचि स्पृह्यति	5
and पुष्पेश्य: स्पृड्यति ?	
(b) How do you support Sampradana in नृपाय निवेदयति ?	5
(c) Explain the Paribhāṣā referred to in লিক্সাবিয়িভ্দিবিমাল্যা	5
युवतिशब्दोऽपि समस्यते ।	
3. Fully explain:—	15
(a) निमित्तमिह फलम्। योग: संयोगसमवायात्मक:।	
(b) द्रव्यैक्य एव। चर्ध पिप्पलीनाम्।	
(c) प्रतिविधसामर्थ्यां दिशेषणसमासोऽपि न।	
4. (a) Give a critical note on the importance of recognizing the system of योगविभाग in the aphorisms of grammar.	10
(b) Name and expound the following compounds:—	5
चकुतोभय:। चष्टागवस्। तावद्वार्थःः। द्यावाचासी। प्रपर्गःः।	
5. (a) Derive the term Karmapravacaniya and show how it differs categorically from Upasargas. Flucidate the meaning of the	9
expression पूर्जन्यो अपसनु प्रावर्षत् ।	
(b) Comment on the following:—	6
परार्थाभिधानं इत्ति:। क्रियानिसित्तं कारकम्।	
Group B (Alamkāra).	
Answer any Four from Group B.	
6. Do you consider the characteristics of a $k\bar{a}vya$, as enumerated by Viśvanātha, to be more exhaustive and accurate than those of Daṇḍin? Do all the $k\bar{a}vyas$ known to you strictly fulfil these conditions? Give reasons for your answer.	10
7. Amplify:—	10
क्रिये कवित्वेऽपि ननाः क्रतयमाः	
विदग्धगोष्ठीष विस्तुंमीश्रते॥	
8. Define and illustrate—	10
प्रस्थानम्। चनुवर्त्तनम्। विष्कन्धः:। चाख्यायिका।	
9. (a) Fully explain:—	5
यथाक विचित् साहक्यं यवो द्वतं प्रतीयते । उपमा नाम सा।	
 (b) Enumerate some of the important varieties of upamā. 10. Define and illustrate:— 	5 10
विरोध:। व्यतिरेक:। तुक्ययोगिता। सङ्गीतः:।	

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FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English either of the following groups of élokas :---

GROUP A.

विश्वक्रमानी भवतः पराभवं (a) नृपासनस्थोऽपि वनाधिवासिनः। दरोदरक्षप्रजितां समीइत नयन जेत्' जगतीं सुयोधनः ॥

B.A. EXAMINATION

(0) मातमान् विनयप्रमाधिनः
ससुपेचेत ससुत्रति (देष: । सुजय: खलु ताहगन्तरे
सुजयः खेलु ताहणत्तर विपदन्ता च्चविनौतसम्पदः ॥
(c) स राजा पुरुषी देख्ड: स नेता शासिता च स:।
चतुर्णामायमाणां च धर्मस्य प्रतिभू: स्रात:॥
(त) सुप्रकस्यास्य वर्गस्य सर्वतिवानुषङ्गिषाः।
पूर्वे गुक्तरं विद्याह्यसनमात्मवान् ॥
GROUP B.
(a) पुर:सरा धामवतां यशोधना:
सुदु:सद्दं प्राप्य निकारसीट्यम् ।
भवाद्यायेदधिकुर्वेते रति
निरायया इन्त इता मनस्विता ॥
(b) हिषतासुद्य: सुमिधसा
गुरुरखन्ततर: सुमर्षेण:।
न महानपि भूतिभिच्छता
फलसन्पत्प्रवर्णः परिचयः॥
(c) चदात् काक: परीडाणं या च लिच्चाडिवस्था।
स्वास्यं च न स्वात् किसंश्वित् प्रवर्तेताधरी तरम् ॥
(d) नित्यसुदातदग्छः स्थान्नित्यं विवृतपीरुषः ।
नित्यं मंद्रतमंवार्थी नित्य किदानुमार्थेरे: ॥
2. (a) Comment on the formation of द्रांदरम and सुमेधसा.
(b) Account for वष्ठी in धामवताम् and ātmanepada in श्वधिक् वैते
in B (a).
(c) Derive शासिता and स्वास्यम्. Conjugate the root of the
former word in lot second person singular and in lan third person plural.
(d) Suggest an alternative form for निकार.
(e) Expound the samāsa in विनयममाधिन: and फ्लस्प्यत्प्रवण: 8 as used above.
(f) Name the vices referred to by the underlined expression in
A (u).
3. Give in simple Sanskrit sentences of your own the substance of either of the following élokas:—
(a) व्रजनित ते सूटिधिय: पराभवं
भविता नायाविषु ये न मायिन:।
प्रविग्य हि प्रन्ति यठासायाविधान्
चसंव्रताङ्गात्रिमिता इतेषतः ॥

B.A. EXAMINATION	809
(b) भाभवर्षेति योऽनुपालयम् विधिवीजानि विवेकतारिणा । स सदा फलमालिनी क्रियां मरदं खोक इवाधितिष्ठति ॥	
Change the voice of the second half of either of these slokas.	8
4. Annotate either of the following ślokas:—	10
(a) धन्वदुर्ग महीदुर्गैमब्दुर्ग वार्चमिव वा।नृदुर्ग गिरिदुर्ग वा समाश्रित्य वसीत् पुरम् ॥	
(b) भमात्यराष्ट्रगार्थंदखाळ्याः पञ्च चापराः ।	
प्रत्येकं कथिता होता: मंचेपेण दिसमित: ॥	
5. Either, What, according to Manu, are the guiding principles of taxation? How should gold, crops and perfumes be taxed? What kind of tax should an artisan pay?	8
Or, Write a clear note on $d\bar{u}ta$ —his usefulness, functions and qualifications.	8
6. Refer to the context and explain fully any two of the following extracts:—	8
(a) परप्रणीतानि वचांसि चिन्वतां	
प्रवित्तसारा: खलु माहशां गिर: ॥	
(b) न समयपरिरचणं चमं ते निक्रतिपरेषु परेषु भूरिधास्न:।	
(c) प्रभव: खलु कीश्यद्ख्य्यो: क्रतपञ्चाङ्गविनिर्णयो नय:।	
(d) सद्दते न जनीऽप्यथःक्रियां किसु लोकाधिकधान राजकम् ॥	
Derive राजकम् and parse परेव in (b).	2
1. Translate into Sanskrit:	25
(a) Not with other men's faults and other men's failings,	

Nor the things they have done, nor the things left undone,

Should the wise man be concerned; Let him look to his own things done and undone.

(b) Just as a flower is fair in its colour, But if it lack odour its beauty is hollow; So fair are words well-spoken But empty the words which deeds do not follow.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1'. Either, Discuss the dramatic necessity of the sixth act of 10 Sakuntalā.
- Or, Explain fully the dramatic propriety of the curse of Durvāsas in the matter of the development of the play.
- 2. Either, What part is played by the Vidüşaka in Abhijñānaśakuntalā?

 Or. Contrast the characters of Sārngarava and Sāradvata as
- 3. (a) Translate into English and then fully annotate in English 18+8-any three of the following:— =26
 - (i) त्रसंशयं चनपरियहचमा
 यदार्थमस्य।मभिलांव मे मन:।
 सतां हि सन्देहपदेषु वस्तुषु
 प्रभाषमनः:करणप्रवृत्तयः॥

revealed in the Court Scene.

- (ii) कामं प्रिया न सुल्का मनस्तु तद्वावदश्नाश्वासि । स्रकृतार्थेऽपि मनसिजे रतिसुभयप्रार्थना जुरुते ॥
- (iii) सायंतने सवनकर्मण संप्रवत्ते विदं इताश्चनवर्ती परितः प्रयसाः । कायाश्चरीत्त बहुधा भयमादधानाः सम्यापयोदकपिशाः पिश्रिताश्चानाम ॥
- (tv) वर्षो हि कन्या परकीय एव तामद्य संप्रेष्य परियहीतु:। जातो ममायं विश्वदः प्रकार्म प्रत्यपितन्यास दवान्तरात्मा॥
- (v) श्रीत्म कामायमवसाययति प्रतिष्ठा

 क्षित्राति खन्धपरिपालनइत्तिरेव ।

 नातित्रमापनयनाय यथा त्रमाय

 राज्यं खड्डस्थारुट्डिमवातप्रम ।
- (vi) संरोपितेऽध्यात्मि धर्म्यपत्नी सक्ता मया नाम कुलप्रतिष्ठा। किष्णिधमाचा महते फलाय विश्वभाषा काल ह्वोप्तवीजा ॥

(vii) भवनेषु रसाधिकेषु पूर्वे चितिरचार्धसुशन्ति ये निवासम्। नियत्तैकयतित्रतानि पश्चात् तक्सलानि ग्रहीभवन्ति तेषाम्॥

- (b) Comment grammatically on any four of the following:—
 भसंश्वाम and प्रमाणम् in (i); मनसिर्ज and उभयप्रार्थना in (ii); भवसाययित
 in (v); संरोपिते and फलाय in (vi); चित्रचार्थम् and प्रयात in (vii).
- 4. Either, Give in your own words, either in English or in Sanskrit, the main plot of Ratnāvalī, and indicate the original sources of this drama.
- Or, Describe either in English or in Sanskrit the Madana-mahotsava of Kausambi.
 - 5. Explain fully either in English or in Sanskrit :-

6+2 =8

सप्राप्तं मकरध्वजिन मधनं लत्तो मदर्थे पुरा तद युक्तं बहुमार्गगां मम पुरो निर्लेज्ज वोदुस्तव ? तामिवानुनयसभावकुटिलां हे कष्णकग्छग्रहं

मुखेत्याह रुषा यमद्रितनया लक्षाय पायाता व:।

Does it foreshadow the main theme of the drama? If so explain how.

6. Either,

6

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उद्दामीत्किलिकां विपास्तुरक्चं प्रारस्वनृभां चणा-दायासं श्वसनोद्गमेरविरतेरातन्वतीमात्मनः॥ भद्योद्यानस्तामिमां समदनां नारीभिवान्यां भ्रुवम् पथ्यन् कोपविपाटस्यातसुखं देखाः करिष्यास्यहम्॥

Explain the whole matter condensed in this verse.

Or, Explain fully what is passing in the king's mind when he exclaims:—

कष्टं भी: कष्टम

किं देखाः स्वतदीर्घरोषस्वितिस्वन्धस्तितं तन्त्रस्वं वसां सागरिकां क्रमोद्वतक्षा कि तञ्जीमानां तथा। वदा नीतिसतो वसन्तकमद्यं किं चिन्तयामीखद्ये सम्बाकारक्षतख्यः चणमिष प्राप्नीस में। नर्वं तिस्॥

तत् किमिदानौमिइस्थितेन भयोजनम्। देवौँ प्रसादांयतुमभ्यन्तरमेव प्रविद्यामि।

- 7. Either, Comment grammatically on any four of the following:
 - (a) मा चन्यचा सन्भावम्।
 - (b) सा ... दु:खं मया खापिता।
 - (c) पाताल ... मां ... संसारवतीव भुजालोक:।
 - (d) मामवधीर्थं कुतोऽतिकामांस ।
 - (e) प्रियवयस्यस्य निवेद्यामि।
 - (f) प्रियवयस्य चागक्कति ... एनस्पस्दैामि ।

Or, Sanskritize the following:-

वास°—षज्ञ भज्ज षं एव्व किं य भणानि जह पिड़वादेहि से रचणावितिति। विद°—भोदि सङ्कत्ए जाणिदो चमचस्य चासत्त।

वास^o—एहि रचणाविख एहि। एत्तिषं वि दाव से विहिणियानुकार्व भोदु। · · · पिडक्किट सस विहिणिषं रचणाविलं चज्ज उत्तो ।

8. Translate into Sanskrit :--

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When a youth is invested with the sacred thread, he must reside in the house of his preceptor and apply himself to the study of the Vedas. He must worship, in the morning and in the evening, the fire and the sun; then he must bow to his spiritual guide. He must always stand when his preceptor is standing, must move when the latter is moving, and while the latter is sitting must occupy a seat lower than the latter's. Whatever portion of the Vedas he is taught by his preceptor, he must listen to and recite with undivided mind. Every morning he must bring his preceptor fuel, water, or anything the latter requires. In short, a student of the Vedas is required to be a loyal, cheerful, and energetic worker in his preceptor's home—ever attending his duties, both domestic and religious.

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

GROUP A.

1. Translate into English two of the following extracts:-

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- (a) बीधसल: किल कियां यिनाइति ब्राह्मणकुली जन्मपरियष्ठं चकार। तस्य यत कनीयां सः षडपरे धातः सदनुष्ठपगणा वभृतः सप्तमी च भगिनी। स क्रतम्मः सांगेषु सोपवेदेषु वेदेषु समिधगतिवद्यायशाः संमती जगित दैवतवन्मातापितरौ पर्या भन्न्या परिचरत्नाचार्यं इव पिनव ताः धातृन् विद्यासु विनयन्नयविनयकुणकी ग्टष्ट- मावसित सा। स कालक्रमान्मातापितौ कालक्रियया संविग्रष्ठदयः क्राला तयोः प्रेत-क्रात्यानि व्यतीतेषु केषु चिदेव दिवसेषु ताः धातृन्मं निपात्योवाच।
 - (b) एव लोकस्य नियतः श्रोकातिविरसः क्षमः ।
 सङ्ख्यापि सुचिर चत्युना यहियोज्यते ॥
 तत्पन्नजितुमिन्हामि श्रेयः शाष्योन वर्त्वाना ।
 पुरा चत्युरिपुर्शन्त ग्रहसंरक्षमेव माम्॥

यत: सर्वानेव भवत: संबोधयामि । अन्यव ब्राह्मणकुली धर्मेण ययाधिगता विभव-मावा यक्यमनया वर्तितुम् । तत्सर्वेरेव भविष्ठ: परस्परं स्रोहगीरवाभिमुखैर्वेदाध्ययन-परैमियाविथिस्त्रजनप्रवयवत्सलैर्धर्भपरायणैर्भृता सम्यग् ग्टहमध्यावस्रव्यम् ।

(c) तिह्दमव प्राप्तकालिमिति विनिश्चित्य स राजा यज्ञारक्षसमुख्युक इव नाम तत्त्रीयां वचनं प्रतिब्द्ध्यावीचदिनान्। सनायः खल्डसन्त्रवचांय यदिवं मे हिताबहित-

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मनसीऽत्रभवन्तः। तदिच्छामि पुरुवमेधसङ्खेण यष्ट्रम्। पन्निष्यतां तद्पयोग्यसंभार-ससुदानयनार्धे यथाधिकारममात्यै:। परौद्ध्यतां सम्नागारनिवेशनयोग्यो भूमिप्रदेश:। अधैनं पुरोहित उवाच। ईप्रितार्थीसङ्घे स्नात् तावन्यहाराज एकस्य यज्ञस्य समा-प्राववशृष्टी। अधीत्तरेषासारमः करिष्यते क्रसेषा।

- 2. (a) Expound the samāsa in five of the following:-5 युवजानि:, षाण्मात्र:, पीतोद्गीर्थम, भातपग्रष्त:, स्रात:, भन्तिर्गार and उदक्षाः।
- (b) Use the alternative case-ending in four of the words underlined:

गवां क्रचा बहु चीरा। मया सेव्यो हरि:। श्रतेन क्रीचाति। चचैदींव्यति। कारयति भ्रत्येन कटम। सोकेन सुक्त:।

- (c) Distinguish between any three of the following pairs:-भपयम, भपय: कशरी, कबरा। सुइत, सुइदय:। राजकम्, राजन्यकम्। तारका, तारिका।
- (d) Express by one word any three of the following:-सायं भव: ; विटव: ईवन्नान: ; फलानि श्रस्य संजातानि ; धर्मादनपेतम ; सद: विकार:।
- (e) Conjugate four of the following roots :— দ্বিষ in লাভ second person singular ; श्राम् in लाट् third person plutal ; स्तु in लीट् second person plural ; शक in ब्रिट second person dual ; वह in ब्रिट first person plural ; and वस् in लुङ् second person singular.
- (f) Give the declined forms of the following: নুবাৰাছ nominative and ablative singular ; इतहन and सानु locative singular ; पदस (feminine) dative singular; and us instrumental singular.
- (g) Correct the errors in the following, giving reasons for the 10 corrections made :---
 - (i) तेल सर्धर्जानीते।
- (ii) यो धर्म: स सहिर्मत: ।
- (iii) मला त्रणाय मन्दे।
- · iv) रधेन संचरति यु:।
- (v) गोपी क्रम्याय तिष्ठति।
- (vi) पिश्वधनुरयं पुरुष: ।
- (vii) पंचागलो हस: ।
- (h) Explain by examples the difference between a Bahuvrihi and a Tatpurusha compound.

Group B.

(Attempt any THREE questions.)

1. Write all that you know of the works of two important poets preceding Kālidāsa.

2. Produce evidence to show whether Sanskrit drama can have any genitive connexion with that of Greece. 10

3. Give a brief idea of the doctrines of the Sāmkhya system of philosophy and state in what way it is connected with or different from the Buddhistic doctrine.

4. Show that didactic fable was reflected in Indian literature even before the development of the text of the Pancatantra. Write what you know about two of the early translations of the Pancatantra.

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15.

5. Write short notes on any five of the following: Ratnākara, Kṣemendra, Varāhamihira, Rājasekhara, Āryāsaptasatī, Navasāhasānkacarita, Somadeva and Kāmandaka.

BENGALI (SECOND LANGUAGE).

Paper-Setters— { RAI BAHADUR KHAGENDRANATH MITRA, M.A. DR. SUSILKUMAR DE, M.A., D.LIT. PROF. SUNITIKUMAR CHATTERJI, M.A., D.LIT.

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D.LITT.

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PROF. SUNITI KUMAR CHATTERJI, M.A., D.LIT.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Write your answers in Bengali—you can write in ETTHER but must not mix up the two styles.

DRAMA TEXTS: 75 marks.

GRAMMAR AND RHETORIC: 25 marks.

- 1. Either, How far does the Divyonmāda partake of the character of a symbolical, a lyrical and a human drama? Indicate the position of the work in Bengali Vaiṣṇava literature.
- Or, Explain briefly the religious symbolism underlying the characters of K_{7} sna and $R\bar{a}dh\bar{a}$ and their friends and associates.
- 2. Either, 'Girish Chandra's villains are the quintessence of villainy, unmitigated by a single redeeming feature. His characterization of these is thus to some extent morbid, and unnatural.'

Discuss the above statement with reference to Praphulla.

- Or, Give a sketch of the character of Jogush. How far was the tragedy of his life due to the machinations of Ramesh, to his own weakness, and to accidental happenings?
- 3. Give a brief critical estimate of the Kṛṣṇa-Kumārī Nāṭak as a drama, indicating what appear to you to be the strength and weakness of both plot and character-painting.
- 4. Explain seven of the following passages, giving full reference 28-to the context:—
 - (i) সেই স্থাধের সাগর সথি ওকাইল, এখন আমার মেষের পানে চাইতে হ'ল।

- (ii) ও ত নর তোর গিরিধর, চেরে দেখ ঐ বারিধর,
 মরি ! ছটী নয়ন-ধারার ধরা ভাসাস্ নে গো ধনি,—
 হের নবীন ধরাধর॥
- (iii) তথন আমি বল্ব গরব ক'রে, ব'ল্ব আমাদের আমাদের আমাদের রাজার— থতের থাতক নিলাম ধ'রে ।
- (iv) নলরাজা যে হংসকে দৃত ক'রে পার্ঠিয়েছিলেন তার সোনার পাথা ছিল; এ দাসের কি আছে মহারাজ ho
 - (v) স্বর্ণকান্তি অগ্নির উদ্ভাপে আরও উজ্জ্বল হয়।
- (vi) যে ধীবর প্রথমে ডুব দেয়, তাকেই কি সাগর উৎক্বন্ত মুক্তাফল দিয়ে থাকেন ?
 - (vii) কেমন মিষ্টি মিষ্টি কথা ব'ল্লে, যেন ভাগবত প'ড়লে।
- (viii) 'বেট্ জষ্টিস্ টেক্ ইট্স্ কোর্স'। আমায় কিছু জিজাসা ক'রো
 না, বা জান কর।
 - (ix) যথন স্থনাম গেছে, সব গেছে; আর কিসের টানাটানি ? আর মমতাই বা কিসের ho
 - (a) আপনাকে আমি বে দিন অবধি প্রদর্শন ক'রেছি, সেই দিন অবধি আপনার প্রতি মন আড়েষ্ট হ'য়েছে, আপনি অতি সজ্জন ও প্রকাণ্ড অক্স।
 - (xi) আমার সাজান বাগান শুকিয়ে গেল !
 - (a) Two passages from this Group—(i), (ii), (iii):
 - (b) Two passages from this Group-(ir), (r), (vi):
 - (c) Three passages from this Group-(vii), (viii), (ix), (x), (xi).

5. Answer one of the following questions:-

(a) Either, Briefly characterize the poetic diction of Kṛṣṇa Kamal Goswāmī.

Or, Compare and contrast the style of Kṛṣṇa-Kumārī with that of Praphulla.

(b) Write notes on seven of the following words and expressions:—

গৌরচন্দ্রিকা, মনোহরশাহী, বাঁকানন, ত্রিপতি, ভগবান, একলিঞ্চ, বাঞ্চারাও, অপোগণ্ড, যবন, সগড়ি, ঠেয়ে, ঘা'ল, বয়াটে, ব্যামো-ভামো, ঘারস্থ, কুলুজী, থাণ্ডারণী, আইবড়, আওহাল, প্যামী, কানাই, সিজেশ্রীর বাঞ্চা।

6. Answer one of the following questions:-

(a) Discuss the tense-system of Bengali.
(b) Give some of the more important formative affixes of Bengali, with examples.

(c) Mention the more important types of samāsa in Bengali, quoting examples with non-Sanskrit words.

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7. Explain five of the following terms, giving examples:— 12} অমুপ্রাস, যতি, রূপক, উৎপ্রেক্ষা, অতিশয়োক্তি, ব্যাক্তম্ভতি অপ্রযুক্ততাদোষ, শ্লেষ।

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

FIRST HALF (POETRY TEXTS).

- 1. Explain with reference to the context any four of the following passages:—
 - (a) আজু কে গো মুবলী বাজায়।
 এ তো কভু নহে শুাম রায়॥
 ইহার গৌর বরণে করে আলো।
 চুড়াটি বাদ্ধিয়া কেবা দিল॥
 তাহার ইক্রনীল-কাস্তি-তয়।
 এ তো নহে নলম্বত কায়॥
 ইহার রূপ দেখি নবীন আয়তি।
 - (b) যত নিবারিয়ে তায় নিবার না যায় রে।
 আন পথে যাইতে সে কায়-পথে ধায় রে॥
 এ ছার রসনা মোরে হইল কি বাম রে।
 যার নাম নাহি লই লয়ে তার নাম রে॥
 এ ছার নাসিকা মুঞি যত করু বন্ধ।
 তবু ত দারুণ নাসা পায় ভামগন্ধ॥
 সে না কথা না শুনিব করি অয়ুমান।
 পরসঙ্গ শুনিতে আপনি যায় কাণ॥
 - (c) সাধিতে আপন কাম আল্যাঙ্ তোমার ধাম
 বহিবে আমার কিছু ভার।
 প্রাণের বহিনী গঙ্গে আন্তহ আমার সঙ্গে
 জাব রাজ্য কলিল রাজার॥
 সন্তাপ করহ মোর দূর।
 রেই সে কলিল দেসে হাজাহ উন্মন্ত বেষে
 ভবে বসে গুজরাট পুর।

হই গো হরির দাসী হরিপদ হৈতে আসি সেই হরি গতি সভাকার। কিবা আমি ক্বফঅংশা কাহার না করি হিংসা কেনে রাজ্য হাজাব রাজার॥

- (d) এই ব্যাধ নিচ জাতি তুমি রামা কুলবতী পরিচয় মাগে কালকেতু। দেখি ভোমা বড় ধন্তা কিবা দ্বিজ-দেব-ক্তা ব্যাধের কৃটিরে কিবা হেতু॥ স্থন স্থন জিজ্ঞাসি ভোমারে। তেজি নিজ বন্ধ স্বামী ষেরপ ষৌবন তুমি কি কারণে অক্ষটের ঘরে॥ চৌদিকে পশুর হাড় অকটি হিংসক রাড য়েই ঘর শ্মশান সমান। কহি আমি হিত বাণী য়েই ঘরে ঠাকুরাণী প্রবেশে উচিত হয় স্নান ॥
 - (e) বাতে বাঁকা সর্ব্ব অঙ্গ পিঠে কুঁজ ভার।
 অন্ন বিনা অন্নদার অস্থিচম্মসার॥
 শত গাঁটি ছিঁ ড়া টেনা করি পরিধান।
 ব্যাসের নিকটে গিয়া হৈল অধিষ্ঠান॥
 ফেনিয়া ঝুপড়ি লড়ি আহা অহুঁ কয়ে।
 জামু ধরি বসিলা বিরসমুখী হয়ে॥
 ভূমে ঠেকে থুপি হাঁটু কান ঢেকে যায়।
 কুঁজ-ভরে পিঠ ডাঁড়া ভূমিতে লুটায়॥
 উকুনের কামড়েতে হইয়া আক্ল।
 চক্ষু মুদি ঘই হাতে চুলকান চুল॥
 - (f) পুরীরাজে প্রাণমিয়া কহে বারে বার।
 বড় রূপা করি কৈলা মো-ছারে উদ্ধার॥
 পুরী কহে তত্ত্ব জানি না করিহ দৈয়া।
 জীব শিক্ষাইতে ধরায় হৈলা অবতীর্ণ॥
 স্বতন্ত্র ঈশ্বর তুহুঁ চিদানলময়।
 তব মায়া-নাটে কার নাহি ভ্রম হয়॥
 তুয়া গূচ্ প্রতিবিদ্ব মন্ত্র-দরপণে।
 দেখিয়া বিশ্বয় হৈলা আপনার মনে॥
 বৈছে শিশু নিজ বিশ্ব দেখি জীড়া করে।
 তৈছে নিজ বিশ্ব দেখি তব প্রোমান্ক্রে॥

বাধা-অঙ্গ-কান্ত্যে কৈনা অঙ্গ আচ্চাদন। রাধা-ভাবে কর স্ব-মাধ্র্য্য আস্বাদন॥

2. Explain the conception of love which finds expression in the passage (b) quoted above, illustrating your answer, when possible, with quotations from Chandidas.

3. Either, Give your own estimate of Kālaketu's character especially with reference to his attitude towards Chandī when she appeared in his cottage in disguise.

8

6

8

Or, Give in your own words a description of the attempt of

Vyāsadeva to found a second Kāśī and how it failed.

Either, Discuss the theory about Chaitanya's personality under-

lying the last two lines of the passage (f) above.

Or, Give an account of the meeting of Gauranga and Advaitacharya over the question of the superiority of knowledge (a) a devo-^{tion} (ভক্তি)

SECOND HALF (MODERN POETRY TEXTS).

Explain with reference to the context any four of the follow-24 ing :--

(a) নিজে যে ছঃথিনী পরহঃথ বুঝে সেই রে, কহিন্ত ভোষারে: বঝি আমি বিলক্ষণ আজিও পাখীর মন আমিও বন্দীলো আজি ব্রজকারাগারে।

সারিকা অধীরা ভাবি কুসুম-কানন। রাধিকা অধীরা ভাবি রাধা বিনোদন ॥

- কে কবি—কবে কে মোরে ? ঘটকালি করি. (b) শবদে শবদে বিয়া দেয় যেই জন. সেই কি সে যম-দমা ? তার শিরোপরি শোভে কি অক্ষম শোভা যশের রতন ? সেই কবি মোর মতে, কল্পনাস্তলরী যার মন:-কমলেতে পাতেন আসন. অন্তগামি-ভামু-প্রভা সদৃশ বিভরি ভাবের সংসারে তার স্থবর্ণ কিরণ।
- রাজার উপরে রাজা, রাজ-রাজেখর **ভেতার উপরে জেতা, জিতের সহায়** আছেন উপরে বংস, অতি ভয়ন্ধর। দয়ালু অপক্ষপাতী, মূর্ত্তিমান গ্রায়। তাঁর রবি শশী তারা নক্ষত্রমণ্ডলে সমভাবে দেয় দীপ্তি ধনী ও নির্ধনে : সমভাবে সর্বদেশে, খেতে ও খ্রামলে. বরুষে তাঁহার মেঘ, বাঁচায় প্রনে।

- (d) চলেছে বুধ-মণ্ডলী
 নরে করি' কুতৃহলী,
 চল্র স্থ্য গ্রন্থ তারা
 ছি'ডিয়া আনিছে তারা
 'শৃত্য হ'তে ধরাতলে জ্ঞান ডোরে বাঁধিয়া।
- (e) আজ শত বর্ষ পরে

 এ স্থন্দর অরণ্যের পল্লবের স্তরে
 কাঁপিবে না আমার পরাণ ? ঘরে ঘরে
 কতশত নরনারী চিরকাল ধ'রে
 পাতিবে সংসার থেলা, তাহাদের প্রেমে
 কিছু কি র'ব না আমি ? আসিব না নেমে
 তা'দের ম্থের পরে হাসির মতন,
 তা'দের বসস্ত দিনে অকন্মাৎ স্থ্য
 তা'দের মনের কোণে নবীন উল্থ
 প্রেমের অন্ধুররূপে ?
- (f) হে দেবর্ষি, দেবদ্ত, নিবেদিয়ো পিতামহ-পায়ে স্বর্গ হ'তে যাহা এবং স্বর্গে তাহা নিয়ো না ফিরারে। দেবতার শুবগীতে দেবেরে মানব করি আনে, তুষিব দেবতা করি' মানুষেরে মোর ছদ্দে গানে।

2. Either, Is Palasir Yuddha an epic or a narrative poem? If not the former, why not?

Or, Describe in your own language the conspiracy scene in the opening canto of Palasir Yuddha.

3. What constitutes, in your opinion, the excellence of Rabindranath's lyrical poetry? Give illustrations, whenever possible.

4. Give a critical estimate of Michael M. S. Dutt's Brajangana 8 Kāvya, as an expression of his lyrical genius.

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Write your answers in Bengali, in either pure সাধু ভাষা or pure

চলিত ভাষা

The questions are of equal value.

- 1. Translate into Bengali one of the following passages, suiting your style as far as you can to that of the passage you select:—
- (a) There are various kinds of greatness, as we all know; however, the most part of those who profess one species is ready to acknowledge no

other. The first and chief is intellectual. But surely those also are to be admitted into the number of the eminently great, who move large masses by action, by throwing their own ardent minds into the midst of popular assemblies or conflicting armies, compelling, directing, and subjecting. This greatness is indeed far from so desirable as that which shines serenely from above, to be our hope, comfort and guidance; to lead us in spirit from a world of sad realities into one fresh from the poet's hand, and blooming with all the variety of his creation. Hence the most successful generals and the most powerful kings, will always be considered by the judicious and dispassionate as invested with less dignity, less extensive and enduring authority, than great philosophers and great poets.

- (b) In jail and out of jail, in jail and out of jail, in jail and out of jail. There, you've got it. That's my life pretty much, down to such times as I got shipped off. I've been done everything to, pretty well—except hanged. I've been locked up, as much as a silver tea-kettle. I've been carted here and carted there, and put out of this town and put cut of that town, and whipped, and worried and driven. I've no more notion where I was born than you have—if so much. I first became aware of myself down in Essex, a-thieving turnips for my living. Tramping, begging thieving, working sometimes when I could—though that weren't as often as you may think, till you put the question whether you would ha' been over-ready to give me work yourselves—a bit of a poacher, a bit of a labourer, a bit of a hay-maker, a bit of a hawker, a bit of most things that don't pay and lead to trouble, I got to be a man.
- 2. Estimate the merits and demerits of the Kādambarī as a prose romance. How far do you think is the prose style adopted by Bāṇabliaṭṭa a suitable vehicle for his story? What is your opinion regarding the merits of Tārāśankar's Bengali version which you read?
- 3. Either, Bankimcandra's Debī-Caudhurānī has been characterized as 'a novel with a purpose.' Do you agree with this view? If so, how far, in your opinion, does the underlying 'purpose' affect the merits of the novel as a literary production?
- Or, Write a critical appreciation of Bankimcandra as a humorist and as a painter of life and character, basing your remarks chiefly on your reading of his Debī-Caudhurāṇī.
- 4. Either, Tek Cand Thakur himself declares that his object in writing Alaler Gharer Dulal was to inculcate a certain moral, as well as to present a picture of contemporary manners. How far has he been successful in achieving these two objects, and how far have they contributed to making his work into a novel?
- Or, Who is the 'hero' of Alaler Gharer Dulal, and why? Or is it a novel without a hero?
- 5. Either, "রামায়ণে দেবতা নিজেকে থর্ক করিয়া মাতুষ করেন নাই, মাতুষই নিজগুণে দেবতা হইয়া উঠিয়াছেন।"

Illustrate this remark by referring briefly to the principal characters in the Rāmāyaņa.

Or. Elucidate :--

বাল্মীকির রামচরিত কথাকে পাঠকগণ কেবলমাত্র কবির কাব্য বলিয়া দেখিবেন না, তাহাকে ভারতবর্ষের রামায়ণ বলিয়া জানিবেন। তাহা হইলে রামায়ণের ঘারা ভারতবর্ষকে ও ভারতবর্ষের ঘারা রামায়ণকে ষথার্যভাবে বৃথিতে পারিবেন।" How far has this point been illustrated in the Rāmāyaṇī-Kathā?

6. Explain fully, with reference to the context, any four of the following

- рыныван :—

 (a) উভয় কাব্যেই কবি দেখাইয়াছেন, মোহে যাহা অক্কভার্থ, মঙ্গলে
- (b) টেম্পেষ্টে শক্তি, শকুন্তলায় শান্তি; টেম্পেষ্টে বলের **ঘারা** জয়, শকুন্তলায় মঙ্গলের **ঘারা** সিদ্ধি; টেম্পেষ্টে অর্দ্ধপথে ছেদ, শকুন্তলায় সম্পর্ণভায় অবসান।
- (c) আমরা আমাদের বিরহ-বিচ্ছিন্ন এই বর্ত্তমান মর্ত্তালোক হইতে সেখানে ক্লনার মেঘদূত প্রেরণ করিয়াছি।
- (d) ভরত স্বর্গের দেবতার স্থায়, তাঁহার ক্রিয়াকলাপ ঠিক যেন পৃথিবী-বাসীর নহে, উহা সর্বাদা ভাবের এক উচ্চগ্রামে আমাদের মনোযোগ সবলে আকর্ষণ করিয়া রাখে। কিন্তু লক্ষ্মণের আত্মত্যাগ অতি সহজভাবে আসিয়াছে, উহা বায় ও জ্বলের মত অতি সহজ্ঞাপ্য।
- (e) গীতার যে নিজাম কর্মের আদর্শ সংস্থাপিত হইয়াছে, হতুমান্ ভাহারই জীবস্ত উদাহরণ।
- (f) কলিকাভার আদি বৃত্তান্ত স্মরণ করিলে সকলেরই আশ্চর্য্য বোধ হুইবে, ও সেই কলিকাভা যে এই কলিকাভা হইবে, ইহা কাহারও স্বপ্নে বোধ হয় নাই।
- (g) আমি নৃতন নহি, আমি পুরাতন। আমি সেই বাক্যমাত্র। কতবার আসিয়াছি, তোমরা আমায় ভূলিয়া গিয়াছ, তাই আবার আসিলাম।

PALI

Paper-Setters—
(Pass and Honours.)

Prof. D. R. Bhandarkar, M.A., Ph.D., Benimadhab Barua, M.A., D.Lit.
Dr. Niranjanprasad Chakrabarti, M.A., Ph.D.
Mr. Sailendranath Mitra, M.A., Ph.D., Nalinaksha Datta, M.A., D.Lit.

Prof. D. R. Bhandarkar, M.A., Ph.D., Benimadhab Barua, M.A., D.Lit.
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তাহা পরিসমাপ্ত।

FIRST HONOURS PAPER

Candidates	are	required t	0	give	their	answers	in	their	own	words
						icable.				

The figures in the margin indicate full marks.

- 1. Translate any three of the following stanzas commenting on the italicized words:—
 - (a) Manopubbangamā dhammā manosetthā manomayā | manasā ce padutthena bhāsati vā karoti vā | tato nam dukkham anveti cakkam va vahato padam ||
 - (b) Aññā hi lābhupanisā, aññā nibbāna-gamini I evam etam abhinnaya bhikkhu Buddhassa sāvako I sakkāram nābhinandeyya vivekam anubrūhaye II
 - (c) Mataram pitaram hantvā rajano dvo ca khattiye l rattham sanucaram hantva anigho yāti brahmano
 - (d) Na redagu ditthiyā na mutiyā sa manam eti na hi tammayo so Na kammana no' pi sutena neyyo anupanito so nivesanesu
 - (e) Akittayi vivatacakkhu sakkhidhammam parissayavinayam
 patipadam vadehi bhaddam te patimokkham atha vapi samādhim
- 2. Compare the following Dhammapada verses in Pāli and Prākrit, 10 stating the reasons why you would prefer one text to the other:—
 - (a) (i) Pamādam anuyunjanti bālā dummedhino janā l appamādan ca medhāvi dhanam seṭṭham ra rakkhati I
 - (ii) Pramāda anuyu ati bala drumedhino jana I apramada tu medhavi dhana šethi va rachati II
 - (b) (i) Yān' imāni apatthūni alāpun' era sārade | kāpotakāni atthīni tāni disvā kā rati d
 - (ii) Yan imani avathani alapun' ira sarade l saghavarnani sikani tani distani ka rati l Yan imani prabhaguni vichitani dikodika kavotakani athini tani distani ka rati
 - 3. Explain the following stanzas in Pāli:—

(a) Kāsāvakaņţhā bai.avo pāpadhammā asaññatā l pāpā pāpehi kammehi nīrayan te upapajjare II

(b) Ekam hi saccam na dutiyam atthi | yasmim pa āno vivade pajānam || Nānā te saccāni sayam thunanti | tasmā na ekam samaņa vadanti ||

4. (a) Sekho dhammapadam sudesitam kusalo puppham iva-ppacessati | 10

10

10

- (b) Vitataņho anādano niruttipadakovido akkbarānam sennipātam jaņņā pubbāparāņi ca ļ sa ve antimasārīro mahāpañño mahāpuriso ti vuccati !!
- (c) Sakam hi dhammam paripunnam āhu aññassa dhammam pana hīnam āhu Evam hi viggayha vivādiyanti sakam sakam sammutam āhu saccam

Discuss the bearing of either the extract (a) on the Dhammapada as a literary compilation, or that of the extract (b) on the training of an arahat, or that of the extract (c) on the Buddhist idea of toleration.

5. Ascertain the antitheses of expositions of Buddhism in the Dhammapada and the Sutta-nipāta, and indicate how far these can enable you to determine the religious or cultural background of Buddhism.

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- 6. Write explanatory or critical notes on any three of the following:—durangamam ekaccaram asarīram guhāsayam cittam; vāṇijo va bhayam maggam appasatho mahaddhano parivajjeyya; gahakārako diṭṭhośi punu yeham na kāhasi; na câham brāhmaṇam brūmi yonijam mattisambhavam; udavindu yathāpi pokkhare padume vāri yathā na lippati evam muni nopalippati.
 - 7. Translate the following stanzas into idiomatic English:-

Kim gijjh i paridevasi, kā nu te paridevanā !
na me suto vā dittho vā bhāsanto mānusim dijo #
Bharāmi mātā-pitaro vaddhe giri-darīsaye !
te kathan ne karissanti, aham vasam gato tava #
Yan nu gijha yojana-safam kunapāni avekkhati !
kasmā jālan ca pāsan ca āsajjāpi na buljhasi #
Yadā parābhavo hoti poso jivita-sankhaye !
atha jālan ca pāsanjjāpi na buljhati #
Bharassu māta-pitaro vaddhe giri-darīsaye !
mayā tvam samanunnāto sotthim passāhi nātake #

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate any three of the tollowing passages into English, adding notes where necessary:-
- (a) Katham bhante Nagasena minā cātummahābhūtikena kāyena Uttarakurum va gaccheyya brahmalokam vā aññam vā pana cīpan ti.—Abhijānāsi nu tvam mahārāja imissā pathaviyā vidatthim vā rataum vā langhitvā ti.—Ama bhante abhijānāmi; aham bhante aṭṭha pi rataniyo langhāmī ti.....Aham hi bhante, cittam uppādemi: ettha nipatissāmī ti; saha cīttuppādena kāyo me lahuko hotî ti.—Evam eva kho mahārāja iddhimā bhikkhu cetovasippatto kāyam citte samāropetvā cittavasena vehāsam gacchatī ti.
- (b) Dukkaram mahārāja Bhagavatā katam: imesam arūpīnam cittacetasikānam dhammānam ekārammaņe vattamānānam vavatthānam akkhātamYathā mahārāja kocideva puriso nāvāya mahāsamuddam ajjhogāhitvā hatthapuṭena udakam, gahetvā jivhāya sāyitvā—jāneyya nu kho mahārāja so puriso: idam Gangāyā udakam, idam Yamunāya, idam Aciravatiyā idam Sarabhuyā, idam Mahiyā udakan ti.—Dukkaram bhante jānitun ti—Aho dukkarataram kho mahārāja Bhagavatā katan ti.
- (c) Thero sādhūti sampaticehitvā dasa upāsakassa upāsakaguņe paridīpesi: idha mahārāja upāsako sanghena samānasukhadukho hoti, dhammādhipateyyo hoti, yathābalam samvibhāgarato hoti, Jinasāsanaparihānim disvā abbivaddhiyā vāyamati, sammāditthiko hoti, apagatakotū. halamangaliko jīvitahetu pi na aññam satthāram uddisati, kāyikam vācasikañ c'assa rakkhitam hoti, samaggārāmo hoti samaggarato, anusuyyako hoti, na ca kuhanavasena sāsane carati. Buddham saraņam gato hoti, dhammam saraņam gato hoti, sangham saraņam gato hoti.
- (d) Yathā mahārāja kusalo bhisakko sallakatto vātapitta-sembasannipāta-utupariņāma-visama-parihāra-opakkanikopakkantam puti-kuņapaduggandhābhisannam antosallam susiragatam pubba-ruhirasampuņņam vaņam vūpasamento vaņamukham kakkhaļa-tikhiņa-khāra-kaţukena bhesajjena anulimpati paripaccanāya, paripaccitvā mudubhāvam upagatam

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satthena vikantayitvā dahati salākāya, daḍḍhe khāralavaņam deti bhesajjenānulimpati vaņarūhanāya byādhitassa sotthibhāvam anupattiyā, api nu kho so mahārāja bhisakko sallakatto ahitacitto bhesajjenanulimpati.

- 2. Explain any two of the following stanzas in Pāli:- 10
- (a) Saddhāya tarati ogham appamādena annavam I virīvena dukkham acceti paññaya parisujihati il
- (b) Ayam patitthā dharanī 'va pāṇinam l idan ca mūlam kusālābhivuddhiyā I mukhan c' idam sabbajinām sāsane l yo silakhandho varapātimokkhiyo II
- (c) Handa kathim pasādetvā chejjapessami meņdake i tassa niddiţhamaggena niddisissantyanāgate #
- 3. Sum up Nāgasena's reply to one of the following questions, 10 adding your observations thereon:---
 - (a) Yam pan' etam brusi : purimā koți na pannāyatı tı, katamā ca sā purimā koti?
 - (b) Yo uppajjati so cra so udāhu anno?
 - 4. Explain fully any three of the following:—
 - (a) Apilāpanalakkhanā sati upagaņhanalakkhaņā ca.
 - (b) Upatthambhanalakkhanam viriyam.
 - (c) Uhanalakkhano manasikāro chedanalakkhanā panna
 - (d) Pami khalakkhano samā thi.
 - (e) Patitthanalakkhanam silam.
- 5. How does Nagasena account for the inequality of men? What is his idea about the first beginning of time?
- 6. Either, Give a critical account of the stories of the Appamadavagga so as to bring out their importance in folk-literature, citing parallels wherever possible.

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- Or, Criticize fully the statement: "The work itself is styled Dhammapada Commentary, but the Commentary plays but a small part in comparison with the bulk of the illustrative tales."
- 7. Compare the language and style of Milinda-panha with that of the Dhammapada Commentary, indicating the lines of departure from the language of the Canon.
 - 8. Translate into idiomatic English:—

Evam eva k o Väsettha, na kira tevijehi biahmanehi Brahma sakkhi-diţţi o, na pi kıra tevi jānam brāhmanānam ācariyehi Brohma sakkhidittho, na pi kira tevijjānam brāhmaņānam ācariyapācariyehi Brahmā sakkhi-dittho, na pi kira tevijjanam brāhmanānam ācariyapācariyehi Brahmā sakkhi-dittho, na pi kira tevi jānam brāhmaņān: m yāva sattamācariyamahāyugehi Brahmā sakkhi-diṭtho. Ye pi kira tesam pubbakā isayo, mantanam kattaro mantanam pavattaro, yesam idam etarahi tevijja brāhmaņā porāņam mantapadam gītam pavuttam samihitam, tad anugāyanti tad anubhīsanti, bhāsitam anubhāsanti vācitam anuvācenti-seyyathidam Attheko Vamako Vamadevo Vessamitto Yemataggi Angiraso Bhāradvā o Vāsettho Kassapo Bhagu—te pi na evam āhamsu: "Mayam etam janāma, mayam etam passama yattha vā Brahmā yena vā Brahmā yahim va Brahma ti ". Te vata tevijia brai mana e . m ahamsu :- 'Yam na jānāma, yam na passāma, tassa sahavyatāya maggam desema : Ayam eva uju-maggo, avam an asayano niyyaniko niyyati takkarassa Brahmasahavyatāya ti'''. Tam kim mannasi Vasetiha? Nanu evam sante tevijjanam brahm ananam appațihîrakatam bliasitem sampajjatî ti Te vata Vāsettha tevijjā brāhmaņā ve chamteā brāhmaņa karaņā te dhamme pahāya vattamānā, ye dhammā abrāhmana karanā te dhamme samādāya vattamānā, avhāyana-hetu vā ācāyana-hetu vā patthana-hetu vā abhinandana-hetu vā kāyassa bhedā param marana Brahmanam sabavvûpagābhavissantî ti-n' etam thanam vijjati.

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THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

GROUP A. SANSKRIT GRAMMAR.

1. (a) Decline any three of the following:—	3
(i) श्रात्मन् in locative plural.	
(ii) श्री in dative singular ;	
(iii) हिष् in genetive plural :	
(iv) भाइन् in instrumental singular ;	
(r) इदम् (nasculine) in genetive dual.	
(b) Conjugate any two of the following roots:—	2
(i) मृत in लाट् first person singular ;	
(11) पा in स्तीट् second person singular.	
(iii) স্থা in লুকু third person singular.	
2. (a) Change the voice of any two of the following sentences:—	8
(i) बालकान् दृष्टवानहम्।	
(ii) द्यां कुर्नेना साधव:।	
iii) न कं ऽपि इन्यते जन्तु: ।	
(b) Correct the errors in the following sentences:-	3
(i) काता भध्ययने विरमन्ते ।	
(ii) माऽवागत्या वन्तुग्रहे प धिवसति ।	
(c) Illustrate the use of एকর্মার and a causative verb.	4
GROUP B. PALI GRAMMAR.	
1. (a) Join by rules of sandhi any three of the following:-	8
(i) $iti + assa$;	
(ii) ajja+agge; (iii) ni+upadhi;	
(10) u+iritam;	
 (v) yena+idha; (b) Illustrate the uses of the third case-ending in Pāli. 	4
the following :tilokam	8
tilanggan and hahukattuka.	3
(b) Give the desideratives of any two of the following roots.—	
kit, da, and sa. (c) How are gerunds formed in Pali? Give examples.	2
GROUP C.	

GROUP C.

Translate into Pāli :--

What is the single doctrine? All beings persist through causes. All beings persist through conditions. This single doctrine, friends, has been perfectly set forth by the Exalted One who knows, who sees.

ramaniyani.

Hereon there should be a chanting in concord, not a wrangling, that thus this holy life may persist and be long maintained. That may be for the welfare and happiness of many folk, or compassion on the world, for the good, the welfare, the happiness of devas and of men.

1. Write a clear note on the origin of Pali.

GROUP D.

Attempt THREE questions.

14

A

2. "The inscriptional dialects agree with the Pāli sound system	7.3
ontirely." Illustrate. 3. Explain and illustrate:—regressive assimilation, metathesis,	13
syncope, and ablaut.	
4. Name the different kinds of Prākrit. How do you show that the Prākrits reach back to the Vedic language through the inscriptional	13
dialects?	
5. How are c, 7, i, and au represented in Pali and Prakrit? Give examples.	13
FOURTH HONOURS PAPER	
POURTH HONOURS I APER	
Candidates are required to give their answers in their own words as far as practicable.	
The figures in the margin indicate full marks.	
1. Either, Give an account of the second Buddhist Council, pointing out the essential differences between the procedures of the first and second councils. Or, Write all that you know about the author of the Mahāvaṃsa and the sources from which he derived his information. How far are his historical statements reliable?	10
2. Either, Summarize the story of Moggaliputta Tissa's birth and his conversion to Buddhism. Or, Name and identify the places to which missionaries were sent by Moggaliputta Tissa for the propagation of Buddhism.	10
3. Write notes on any five of the following:—(a) vibhajjavādin, (b) kathāvatthuppakaraṇa, (c) Buddhasāsanadāyāda, (d) pattidānavacana, (e) kālāsoka, (f) iriyāpatha, (g) kammaṭṭhāna.	10
4. Translate into English:—	10
(a) Iti paramamatīnam pattipattabbakānam t bhavalitakarānam lokanāthorasānam sumariya maraņam tam samkhatāsārakattam parigaņiyam asesam appamatto bhaveyyāti.	
(b) Tasmim dine mahārājā sabbālamkārabhūsito sahorodho sahāmacco baloghaparivārito agamāsi sakārāmam bhindanto viya medinim, samghamajjhamhi aṭṭhāsi vanditvā samgham uttamam.	
5. (a) Disjoin the sandhis in the following sentence:-	5

Atha khalu te kumārakā yena sa pitā tenopasamkrā mannupsamkramya ivam vadeyuḥ. Dehi nastāta tāni vividhāni kridanakāni

(b) Parse the words italicized in the above sentence.

- (c) Decline the base of (i) pitā or tena (masculine), and (ii) asmad or mahat (masculine) in all cases and numbers. (d) Conjugate the root kr or gam in lan (imperfect), and as or muc in lat (present). Either, Name the suffixes used for forming comparatives and superlatives of adjectives in Sanskrit, giving examples. Or, Name the ten classes into which verbs are divided in Sanskrit grammar, giving examples :--7. Translate into Sanskrit :--(a) The boy throws a stone. (b) Call your brother.(c) My father will buy a horse. 8. Translate into English any two of the following extracts: 30 (a) Sā devī samaye dhaññam janayı puttam uttamam. mahārājakule tasmim ānando ca mahā ahu. Tassa puññanubhavena tadahe va upagamum nānāratan: sampuņuā satta nāvā tato tato Tasseva puññ i tejena Chaddantakulato kari hatthicchapam äharitvä thapetvä idha pakkami. (b) Poranehi kato p'eso ativittharito kvaci. atīva kvaci samkhitto, anekapunaruttako. Vajjitam tehi dosehi sukhaggahanadharanam pasadasamvegakaram sutito ca upagatam pasādajanake thāne tathā samvegakārake
 - (c) Vangesu Vanganagare Vangarājā ahū pure Kālingarañño dhītāsi mahesī tassa rājino. So rājā deviyā tassā ekamialabhi dhītaram, nemittā vyākarum tassā āvāham migarājinā. Atīva rūpinī āsi atīva kāmagiddhinī, devena deviyā cāpi lajjāyāsi jigucchitā.

janayanta pasadam ca samvegam ca sunatha tam.

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

A. TEXT.

- 1. Translate any four of the following extracts, discussing the 13 full significance of each :--
 - (a) Yāvakivalī ca Ananda \ajjī apalīlattam na palīlāpessanti, palīlattam na samucchindissanti, yathā palīlatte porāņe Vajīdhamme samādaya vattissanti, vuddhi yeva Vajjīnam pāţikankhā, no parihāņi.
 - (b) Na kho me bhante atītānāgata-paccuppanneju arabantesu sammāsambuddhesu ceto-pariyañāṇam atthi. Api ca dhammanvayo vidito.
 - (c) Tena kho pana samayena Sunīdha-Vassakārā Magadha-mahāmattā Pāţaligāme nagaram māpenti Vajjīnam paṭibāhāya; sambahulā devatāyo sahassasa' eva Pāṭaligāme vatthūni pariganhanti.
 - (d) Tasmāt iii. Ananda atta-dīpā viharatha atta-saraņā analīfia-saraņā, dhamma dīpā dhamma-saraņā analīfia-saraņā.

(e) Mā h' evam Ananda avaca: ''Kuddanagarakam ujjangala-nagarakam sākha-nagarakam, santi hi bhante annāni mahā-nagarāni seyyathî-dam Campā Rājagaham Sāvatthi Sāketam Kosambi Pārānasi.''

(f) Na kho Devānaminda samaņa brāhmaņā accanta-niţthā accanta-

yogakkhemī accanta-brahmacārī accar ta-pariyosānā.

2. What is the difference between a sutta and a mahāsuttanta? What is the main theme of the Mahāparinibbāna-Suttanta, and does it justify the title?

3. What are the different interpretations of the word sūkaramaddara? Which of them is acceptable to you and why?

- 4. Fully discuss the significance of dhammādāsa and mahāpadesā indicating their bearings on Buddhism and its interpretation.
 - 5. Explain one of the following two sanzas in Pāli:-
 - ta) Sabbe' va nikkipisean i b' ūtā loke samussavam l vathā e āniso Satthā loke appat puggalo l Tathāgato balappatto sambudd: o parimbbuto s
 - (b) Yadā ca Buddham adakkhim nicikiechā-vitāraņam I so 'mhi vītabhaye aj'a san teddham pavi ujāsiya I Taphā-sallassa hantāram Buddiam ai patipuggalam I aham vande mahāvīram vandām' Ādicea-baudhunam II
- 6. Either, Discuss the question whether any new literary art is developed in the Sakkapanha-Suttanta in presenting the riddles of Sakka. Give a critical analysis of these riddles and their solutions, deciding whether these bring out any new aspect of Buddhism.

Or, What light is thrown by the following extract on the date of composition of the Mahāparinibbāna-Suttanta and the political

relation between Magadha and Vesali?-

Tena kho pana samayena rājā Māgadho Ajātasattu Vedehiputto Vajjī abhiyātu-kāmo hoti. So evam āha: "Āhañhi 'me Vajjī evammahiddhike evam mahānubhāve, urchej āmi Vajjī vināse-sāmi Vajjī anava-vyasanam āpādessāmi Vajjī 'ti.

- 7. (a) Siyā kho pan' Ananda tumhākam evam assa: "Atītasatthukam pāvacanam, n'atthi no satthā" ti. Na kho pan'etam datṭhabbam. Yo vo Ananda mayā Dhammo ca Vinayo ca desito paññatto, so vo mam'accayena Satthā
- (b) Yathā kho pan' Ananda etarahi bhikkhū aññam aññam āvusovādena samudācaranti, na vo mam' accayena evam samudācaritabbam. Theratarena bhikk hurā navak itaro bhikkhu nāmena vā gottena vā āvusovādena vā samudācaritabbo, navakatarena bhikkhunā therataro bhikkhu "Bhante" ti vā "Āyasmā" ti vā samudācaritabbo.
- (c) Akankhamano Ananda S meho mam' accayena khuddanukhuddakani sikkhapadani samuhantu.

Either, Determine in the light of the above extracts (i) the position of the Buddha in relation to the Sangha, (ii) the relationship of the members of the Sangha before and after the demise of the Buddha, and (iii) the guiding principle of the Sangha.

Or, Show in the light of Buddhaghosa's account of the Councils

Or, Show in the light of Buddhaghosa's account of the Councils how the injunction of the Buddha as embodied in the extract (c) formed a bone of contention and bore fruit far beyond the conception of the

early followers of the Buddha.

B. SANSKRIT GRAMMAR.

8. Give--

(a) 2nd and 3rd sing. imperf. parasm, of the following:—han, vac, vas, and duh;

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- (b) pres. parasm. of brū; 3rd pl. pres. parasm. of bhī; impera-2 tive 2nd sing. of as (to be), and hu; (c) 2nd sing. perf. of k_l (with sam), caks, and arc; (d) 3rd sing. aor. of i (with adhi), as (4th conj.), and $s\bar{u}$ (with pra); (e) 3rd sing. pres. frequentative of dah, jan, and han; (f) the Sanskrit equivalents of the following:—eighty-second, a collection of four, how many times, and shortest 9. Define बहुत्रीहि, and distinguish it clearly from तत्व त्व. What is a अधोकरण-वस्त्रीप्ति ? Give illustrations in support of your answer. Translate any two of the following idiomatic sentences, clearly bringing out their meaning:-
 - (a) प्रसन्नप्रायस्ते तर्कः।
 - (b) भायषान एव वाग्विषभौभृत: स वीर:।
 - कथ प्रकाशतां गतीयमर्थः पौरेषः
- Translate into Sanskrit any four of the following, observing 12 the rules of Sandhi :-
 - (a) I have purchased twenty-two sheep for forty-five rupees. (b) He stayed at Benares for twelve years to study grammar.
 - (c) I had hardly left the house when he came to see me.
 - (d) There is no use crying over spilt milk
- (e) If the boy had come when he was called, he would have got a prize.
- (f) Brahmans repeating the vedas are like frogs croaking in the rams.

C. Unseen.

11. Translate the subjoined extract into idiomatic English :-

'Jāti paccayā 'aiā-maraṇan'' ti iti kho pan' etam vuttam. Tad Ananda iminā p' etam pariyāyena veditabbam yathā jāti paccayā jara-maraṇam. Jāti va hi Ananda nabhavissa sabbena sabbam, sabbathā sabbam kassaci kimbici, seyyathidam devananı va devattaya, gandhabhānom vā gandhabbattāya, yakkhānam vā yakkhattāya, bhūtānam vā bhūtattāya, manussānam vā nanussattāya, catuppadānam vā catuppadatiāya, pakkhinam vā pakkhattāya, sirimsapānam vā sirimsapattāya,

tesam tesam va hi Ananda sattānam tathattāya iāti nabhavissa, sabbasso jātiyā asati jāti nirodhā api nu kho jarā-maraņam paññayetha ti? No h' etaup bhante.

SIXTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value.

GROUP A.

Attempt FOUR questions only.

1. Write an account of the Sakyas, describing their mode of life and political institutions. What caused their downfall?

- 2. What do you know of the town life and town construction about the time of Buddha?
- 3. Enumerate the Mendicant Orders in Ancient India and give their history.

4. Discuss the nature, origin, and historical importance of the Jataka stories.

What were the rules of admission to the Buddhist Samgha?What did Asoka understand by Dhapma? How far was it Buddhism?

7. Explain how far you can accept the traditional account of the first two Buddhist Councils as historical.

GROUP B.

Attempt FOUR questions only.

- 8. What is meant by 'Changes in Language'? How far can they be controlled?
- 9. Language is only partly rational and logical: there is in all 'languages an element of irrationality.' Explain.

10. Write a note on Aryan languages pointing out their original home,

age, and general structure.

- 11. Show how far the infinite varieties in the character of languages are to be regarded as the expression of the national characteristics of their speakers.
- 12. Indicate what groups of languages are included in the Indo-Germanic family, specifying briefly the characteristics of the principal groups.
 - 13. Show the interrelation of Pali, Vedic Sanskrit and Classical Sanskrit.
- 14. Explain and criticize Sir George Grierson's mode of classifying the modern vernaculars.

PROF. BENIMADHAB BARUA, M.A., D.LIT. DR. NALINAKSHA DUTTA, M.A., D.LIT. ,, AMARESWAR THAKUR, M.A., PH.D.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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- 1. Translate any four of the following stanzas into English, commenting on the italicized words:-
 - (a) Bahumpi ce sahitam bhasamano na takkaro hoti naro pametto i Gopo va gavo gapayam paresom na bhagava samannassa hoti il
 - (b) Yatha samkaradhanasmim ujihitasmim mahapathe t padumam tattha jäyetha socigandham manoramam # Evam samkarārahhūtesu andhabhūte puthujjane, I atirocati paññāya sammāsambuddha-sāvako #
 - (c) Na naggacariyā, na jaṭā, na pankā, nānāsakā, thaṇḍilasāyikā vā 1 rajovajall' ukkutikappadhanam sodhenti maccam avitinnakankham 1
 - (d) Na h' eva saccāni bahūni nānā annatra sannāya niccāni loke l takkam ca diffhisu pakappayitvā saccam musā' ti dvayadhammam āhu f

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- (e) Phandemānem pajam disvā macche appodake yathā | aññam aññehi vyāruddhe disvā mam bhayam āvisi ||
- 2. Write explanatory or critical notes on any four of the following:—

(a) bhovādi nāma so hoti;

(b) mā lohagoļam gili;

(c) dure santo pakasenti Himavanto va pabbato;

(d) vanam chindatha, mā rukkham;

(e) gedham brūmi mahogho

- (1) Athabbanam supinam lakkhanam.
- 3. Cite instances of archaism from the Dhammapada and the Atthakavagga verses. State, giving reasons, how far the prevalence of these can be relied upon as proof of the greater antiquity of the composition.

4. Either, What reasons can you adduce to prove that the Atthaka group of poems is one of the earliest known materials of the Buddhist canon? Why is it that just four of the poems of the Atthaka group bear the name of atthaka (octave) and consist strictly each of eight stanzas as an atthaka ought to?

Or, What is the character of early Buddhism as determined by the gāthā, of the Dhammapada and the Atthaka verses? Does the Dhammapada, when compared with the Atthaka poems, strike any new note of Buddhism, and what inference would you draw from both regarding the goal of Buddhism?

- 5. Explain the following stanzas, bringing out their main purport:—
 - (a) Saliba-pāpassa akaraņam, kusalassa upasampadā l sacitta-pariyodapanam, etam Buddhāna sēsanam #
 - (b) Sakāyane capi daļham vadānā kam etcham balo' ti param daheyya I sayam eva so medhakam āvaheyya param vadam bālam asuddhadhammam. II
- 6. What are the known recensions of the Dhammapada? Why is the arrangement of the chapters not identical in them? How do you account for its wide popularity?
 - 7. Translate the following stanzas into idiomatic English:- 30

Adittam vata me sentam ghatasittam va pāvakam ! vārinā viya osincem sabbem nibhāpaye deram !! Abbehi vata me sallam yam āsi hudaya-nissitam ! yo me soka-paretassa pitusokam apānudi !! So' ham abbūļhasallo' smi vitasoko anāvilo ! na socāmi na rodāmi tava sutvāna mānava !! Evam karonti sappanāā ye honti anukampakā ! vinivattayanti sokambā sujāto pitaram yathā !!

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate three of the following passages, of which (c) must be one, into English, adding explanatory notes on the words italicized:—
- (a) Atha kho Milindo rājā khaggaparivārito viya gajo, garuļaparivārito viya nāgo, ajagaraparivārito viya kotthuko...bbūtavejjasamāgato viya

pisāco, vaļavanam anupivittho viya puriso Vessavaņāparādhiko viya yakkho, bhīto ubhiggo utrasto...bhantacitto vipariņatamānaso mā mam ayam jano paribhavī ti dhitim upatthapetvā Devamantiyam etad avoca.

- (b) Rājā āha: Kimatthiyā bhante Nāgasena tumbākam pabbajjā ko ca tumbākam paramattho ti. Thero āha: Km ti mahārāja icam dukkham nirujjheyya aññan ca dukkham na uppajjeyyā ti etodotthā mahārāja ambākam pabbajjā, anupādā parimbbānam kho pana amhākam paramattho ti
- (c) Yam tattha mahārāja oļārikam etnu rūpam, ye tattha sukhumā cittacetasikā dhammā etam nāman ti. Aūñamenūūpanissitā mahārāja ete dhammā, ekato va uppajjanti ti. Yathā mahārāja kukkuţiyā kalulam na bhaveyya audam pi na blaveyya, yaū ca tattha kalalam yaū ca audam ubho p' ete aūñamaūñanissitā, ekato va nesam uppatti hoti, evam eva kho mahārāja yadi tattha nāmaun na bhaveyya rūpam pi na bhaveyya, yaū c' eva tattha nāman yaū c' eva rūpam pi na bhaveyya, yaū c' va nesam uppatti hoti; evam etam dīgham addhānam sambhāvitan ti.
- (d) Thero āha: Kuhim pana mahārā a tva jātabhūmi ti,—Atthi bhante Alasando nāma dīpo, tatthāham yāto ti.—Kīva duro mahārīja ito Alasando hoti ti —Dumattāni bhante yojanasatāni ti.—Abhijānāsi nu tvam mahārāja tattha kincideva karanīyam karitvā sarītā ti.—Ama bhante, sarāmi ti.—Lahum kho tvam mahārāja geato si dumattāni yojanasatāni ti.
 - 2. Explain any two of the following stanzas in Pāli:---

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- (a) Pūjiyantā asama-amā sadevamānusehi te l na sādiyanti sakkāram, buddhānam esa dhammatā 11
- (b) Paţigacc' eva tam kayırā yam γεññ hıtam attano | na sākatıkacintāya mantā' dhīro patakkame ||
- (c) Nābhinandāmi maraņam nābhinandāmi jīvitam l kālaŭ ca potikankbāmi nibbisam bhatako yathā !!
- 3. Answer in your own words any two of the following questions:—
 - (a) Atthi keci sankhārā ye abhavantā jāyantî ti?
 - (b) Vedagū upalabbhatî ti?
 - (c) Katīhi ākārehi sati uppajjatî ti?
- 4. Narrate the story cither of Cūlapanthaka Thera or of 10 Kumbhaghosaka, quoting and explaining the moral verse which it illustrates.
- 5. What are the data available in the Milinda-panha for the 10 identity between Milinda and Menander?
- 6. Either, Comment upon Nāgasena's method of exposition, and characterize his position in regard to the fundamental principles of Buddhısm.
- Or, Illustrate the statement: "Like the Jātaka book, which it so much resembles, the work (i.e., the Dhammapada Commentary) is a perfect mine of curious information on socient India."

7. Translate into idiomatic English:-

- (a) Tasmim pana nagare anusamvaccharam viv tanakkhattam nāma hoti, tadā bahi anikkhamanakulāni pi parivārena saddhim gehā nikkhamitvā apaticchannena sarīrena padasā va nadītīram gacchanti. Tasmim divase khattiyamahāvālādīnam puttāpi attano samanajātikam manāpam kuladdārikum disvā "mālāguļena parikkhipissāmā" ti tam tam maggam nissāya titthanti.
- (b) So pi setthī dhītaram evam ovadi: "amma sāsurakule vasantiyā nāma anto aggi bahi na nīharītabbo, bahī aggi anto na pavesetabbo, dadantass' eva dātabbam, adadantassa na dātabbam, dadantassâpi adadantassāpi dātabbam, sukham nisīditabbam, sukham bhuñ itabbam, sukham nipajitabbam, aggi paricaritabbo, anto devatāpi namassitabbā" ti idam dasa-

vidham ovādam datvā, punadivase sabbā seniyo samipātetvā rājasenāya majjhe attha kutumbike pāṭibhoge gahetvā, isace me gataṭṭhāne dhītu doso uppajjati tumhehi sodhetabbo' ti vatvā navakoṭiagghaṇakena mahālatapasādhanena dhitaram passādhetvā nahānacuṇṇamūlakam catupannāsakoṭidhanam datvā yānaam āropetvā Sāketassa sāmantā attano santakesu Anurādhapuramattesu cuddasasu bhattagāmesu āṇaṇ carāṣesi: "mama dhītarā saddhim gantukāmā gacchantā" ti.

THIRD PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

GROUP A.

- 1. (a) Join by sandhi any four of the following:—
 स्थि + इह, पाशान् + के हुन् । भा: + देवा:, वाक् + हि, विधु: + राजते।
- (b) Correct the errors in any four of the following, giving your reason in each case:--
 - (i) क्वीमी गच्छत:। (ii) दंवाय नमस्त्रत्य याति।
 - (iii) देवपादानां सेवकस्य न प्रयोजः स्
 - (iv) य मं दिचिषत: नदी। (১: ৭ খনীবন্ सुगन्धं।
 - (vi श्रमी चत्र्षि काण:
- (c) Decline three of the following bases:— भ्रद्भ (feminine) dative singular; चतुर् (masculine) accusative singular; भी accusative plural; दिव instrumental singular; भिन्न genitive dual
- (d) Conjugate any four of the following roots:—is perfect, third person singular; imperfect, second person singular; a present, third person plural; imperfect, second person singular; imperative, first person plural; and upg imperative, second person singular.
- 2. (a) Name and expound the samāsa in four of the following:—upagangam, bahunadikodeso, jānipati, palchankaro, samsāradukkham, and catuddisam.
- (b) Substitute single words for fire of the following:—Sakyaputtassa apaccam putto; vinayam adhīte: bhikkhūnam samūho; pacchā jāto; sabhe ime pāpā, ayam imesam viscsena pāpo; dvārs niyutto, and sumedhā yassa hoti.
- (c) Conjugate three of the following roots in Pāli:—labh, imperative, second person singular: as, optative, first person plural; pra-vraj, sorist, third person singular; &ru, sorist, third peson plual; and &ak, future conditional, third person singular.
- (d) Derive and give the derivative meaning of any three of the following:—pabbatāyati, jighacchati, titikkhati, and chattīyati.

3. Translate the following extract into Pali:-

30

Having uttered her assent and traversed the whole length of the palace she assembled all the friends as well as the sons and daughters, saying, 'Your father wishes to give you an exhortation, this will be your last sight of him.' When the young prince Dhammapālakumāra heard this he began to weep, and went before his father surrounded by his younger brothers. When the father saw them, unable to maintain his tranquillity, he embraced them with eyes full of tears, and kissed their heads and pressed his eldest son for a moment to his heart. Then, raising him up from his bosom and going out of the royal chamber, he sat down in the middle of the couch on the raised platform and delivered his address to his thousand sons.

GROUP B.

Attempt any FOUR questions.

1. Define and illustrate:—assimilation, prothesis, syncope, and	10
analogy.	
2. Mention the chief characteristics of the principal languages	10
or groups of languages in the Indo-Germanic family.	
3. Compare the phonology of Avesta and Sanskrit, noting the	10
agreement and disagreement of vowels in these languages in quality	
and quantity.	
4. Produce evidence to show the existence of Prakrits side by side	10
with the Vedic language. Did they in any way influence Vedic and	
Classical Sanskrit?	
5. Show by examples how civilization can be disclosed by a	10
comparison of languages.	
6. Compare the phonology of Pali and Sanskrit with regard to	10
vowels.	

GROUP C.

Alternative to Question 1, Group A. For Burman Candidates only.

(a) Derive and give the derivative meanings of five only of the tollowing:—udadhi, sugato, kumbhakāro, dukkara:, āgantuko, vādako, and upakāro.

(b) Explain and illustrate the use of the dative in Pāli.(c) What are the different ways of indicating the gerund in

Pāli? Give at least one example of each.

Paner-Setters- (MAILLY) ARIL TABLER

ARABIC

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(Pass and	Prof. M. Z. Siddiqi.
$\dot{H}onours.$)	Prof. M. Z. Siddiqi. Maulvi Md. Irfan, M.A.
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FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English, adding notes where necessary:—
 (a) هون عليك الامور و اعلم * ان لها موردا و مصدو و اصبر اذا ما بليت يوما * فان ما قد سلمت اكثر يأسل الناس ما دهاهم * صاروا و ما ينكرون منكر ارض المنايا لكل طاغ * و ارض المنايا لمن تجبر يا رب ذي اعظم وفات * كان اذا ما مشى تبغتر في الموت شغل لكل حيّ * و اي شغل لمن تغير في الموت شغل لكل حيّ * و اي شغل لمن تغير في الموت شغل لكل حيّ * و اي شغل لمن تغير في الزمان به علينا * كسلك الدو يخفيه النظام فقد خفي الزمان به علينا * كسلك الدو يخفيه النظام اذا عدّ الكوام فتلك عجل * كما الانواء حين تعدّ عام قبيل انت و انت منهم * وجدك بشر الملك الهمام القد حسنت بك الاوقات حتى * كانك في فم الدهو ابتسام لقد حسنت بك الاوقات حتى * كانك في فم الدهو ابتسام و اعطيت الني لم يعط خلق * عليك صلوة وبدك و السلام
- (ii) زيا بؤس للناس ما دهاهم in the extracts نا بؤس للناس ما دهاهم الله بن منجبة سقاني ـ بدر ما لراضه فطام (iii) نام نام in the extracts in Question 1.

2. (a) Parse according to Arabic Grammar:-

- in the different verses in the extracts in Question 1: (حسنت بک خفی الزمان به رسقانی بدر)
- (c) Describe briefly the special features of the poems of the authors of the extracts in Question 1.
 - 3. Explain fully, giving the context, if necessary:—
 - (a) و مبعدي يدل بني خندف * على ان كل كريم يماني طويل النجاد طويل العماد * طويل القناة طويل اللسان حديد اللحاظ حديد الحفاظ * حديد الحسام حديد اللسان

(۵) و الحدروب صاحبها الصليب على تلاتلها العزوم

من لا يملّ ضراسها و لدى الحقيقة لا يخيم
و اعلم بان الحرب لا يستطيعها المرح السنوم
و الخيال اجردها المناه هب عند كبتها الازوم
و يا لهف نفسي على الشباب * و لم افقد به اذ فقدته امما
اذا اسحب الريطو المروط الى * ادنى تجاري و انفض اللمما
لا تغبط الم و ان يقال له * امسى فلان لسنه حكما
ان سرة طول عهرة فلقد * اضحى على الوجه طول ما سلما

- 4. (a) Name the author of the extract (b) in Question 3, and 8 describe briefly the contents of the whole poem.
- (b) Write notes on the expressions underlined in extract (c) in Question 3.
- 5. Describe briefly the special features of the poems selected from 10 the Kitābu'l-Ḥamāsah and the Dīwān of Al-Mutanabbi, in your course, and explain them.
 - 6. (a) Explain in Arabic:—

اعاذل ما عمري و هل لي و قد اتت

اخا سفر سیری به ر هو لا یدري

مقيمين في دار نروح ر نغتدي

8

15

بلا اهبة الثاري المقيم ر لا السفر

(b) Write grammatical notes on ما عمري, (and ما عمري), and ي and ي n the above extracts.

7. Explain any six of the following:—

رريدك _ اللهم _ ليت شعري كيف حالك _ ما ابعد الشـئ صرحبا _ زجرت لهم طيوا _ جو الدهو كلاكله على الناس _ ملمّة *

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. (a) Translate into English:—

يُسَبِّمُ لِلهِ مَا فِي السَّمُواتِ وَ مَا فِي الْأَرْضِ الْمَلِكِ الْقَدُّرْسِ الْعَرْضِ الْمَلِكِ الْقَدُّرْسِ الْعَرْيُنَ رَسُولًا مِنْهُمْ يَكُمُوا الْعَزِيْزِ الْعَكِيْمِ * هُو الَّذِيْنَ بَعَث فِي الْاَمْدِيْنَ رَسُولًا مِنْهُمْ يَكُمُوا

عَلَيْهِمْ الْيَتِهُ رَ يُزَحِّيْهِمْ وَ يُعَلِّمُهُمْ الْكِتَابُ وَ الْحَكْمَةُ وَ إِنْ كَانُوا مِنْ فَكُلُ اللهِ عَلَيْهِمْ الْكَابُونُ مِنْهُمْ لَكَا يُلْعَقُوا بِهِمْ وَهُو الْعَزْيُزُ وَلَا يُشَاءُ وَ اللهُ نُو الْفَضْلِ الْعَظْيَمِ * وَ الْجَوْيُونُ مَنْكُ اللهِ يُوتِيْهُ مَن يُشَاءُ وَ الله نُو الْفَضْلِ الْعَظْيَمِ * مَثُلُ النَّذِيْنَ مُصلُوا التَّورُةُ نُمُ لَمْ يَحْمِلُوهَا كَمَثَلِ الْحَمَارِ يَحْمِلُ الشَفَارُا * مَثُلُ النَّذِيْنَ مَصلُوا التَّورُةُ لُمُ لَمْ يَحْمِلُوهَا كَمَثَلِ الْحَمَارِ يَحْمِلُ الشَفَارُا * مِثْلُ النَّذِيْنَ مَثْلُ النَّذِيْنَ عَلَيْمُ اللهِ * وَ الله لا يَهْدِي اللهِ مِنْ اللهُ مِنْ اللهُ عَلَيْمُ اللهِ عَلَيْمِ النَّهُ اللَّذِيْنَ هَادُوا إِنْ وَعَمْتُمْ إِنْكُمْ اللهِ لا يَهْدِي اللهِ مِنْ اللهِ مِنْ اللهِ عَلَى اللهِ عَلَى اللهِ عَلَى اللهِ عَلَى اللهِ عَلَيْمَ اللهِ عَلَى اللهِ عَلَيْمَ اللهِ عَلَيْمَ اللهِ عَلَى اللهُ عَلَيْمَ اللهِ عَلَى اللهِ عَلَى اللهِ عَلَى اللهِ عَلَى اللهِ عَلَيْمَ اللهِ عَلَيْمَ اللهِ الْعَلْمِينَ عَلَى اللهِ الْعَلَيْمِ اللهِ عَلَى اللهُ عَلَيْمُ اللهِ الْعَلْمِينَ عَلَى اللهِ الْعَلْمِ الْعَلْمِ الْعَلْمِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ عَلَيْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمِ اللهُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهُ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهُ اللهُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهُ الْعَلْمُ اللهِ الْعَلْمُ اللهُ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ اللهُ اللهُ اللهِ اللهُ اللهِ الْعُلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ اللهُ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ اللهِ الْعَلْمُ ال

450 Cities will all and a factor of the control of	
(6) Give all the meanings of the word:	5
in the above extract :	4
و الخرين منهم لمَّا يلحقوا بهم	
(d) Write a note on اسماء سته محبّره	5
(e) Explain انعال مدح و ذم with their عمل and illustrate with examples.	5
(أ نعال القلوب مع خصا أصها) (أ)	5
2. (a) Explain in Arabic:—	16
فلـر قبل مبكاها بكيتُ صبابة	
بسعدي شفيت النفس قبل التندم	
ر لڪن بڪت قبلي فهي۾ لي البڪا	

ا الهذر الذي ارردته ــ و العورد	ر ارجو ان لا اڪون في هذ
بظلفه ر البعادع مارن انفد بكفه	النبي ترردته كالباحث عن حتفه
سعيهم في العيوة الدنيا و هم	فالعق باللخسرين اعمالا الذين ضل
•	بحسبون انهم يحسنون صنعا *

(b) Give vowel-points to the extract (a) in Question 2.

15 بينوا بالعربية تذكرة الحريري صاحب المقامات و سبب 15 وضعه المقامات *

10 اذكروا بالعربية قصة خاتم رماه الرشيد في الدجلة * 4.

on his 10 قزرینی in his 10 سرندیب in his درینی in his درینی

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

22

Translate into English :—

ر قل الفصل ر جانب مَن هزل ر قل الفصل ر جانب مَن هزل ر دع الدكر لا يام الصبا فلايام الصبا و افتكر في منتهي حُسن الذي انت تهواه تبعد امرا جلل ر اهبير الخمرة ان كنت فتي كيف يسعى في جنون من عقل و اتق الله فتقوى الله ما جاررث قلب امرئ الا وصل يا بني اسمع رمايا جُمعت عكما خُصْتُ بها خير الملل

اطلب العلم و لا تكسل فما ابعُد الغير على اهل الكسل و احتفل للفقهة في الدين و لا تشتغل عنه بمال و خُول و اهجر النوم و حصّلة فمن يعرف المصطوب يعقر ما بذل في ازدياد العلم ارغام العدا و جمال العلم اصلاح العمل

(b) الكتباب نعم الانيس في ساعة البرحدة - و نعم 22 المعرفة في دار الغربة - ر نعم القرين ر الدخيل -و نعم النزائر و النزيل ـ وعاء ملى علما و ظوفا ـ اناء ملئ مسزحا رجدا - هل سمعت بشجسرة تُدوتي اكلها كل حين بالران مختلفه رطعوم متبائنة ـ هل سعت بشجرة لا تذرى و لا تذبل ر زهر لا يترى ر لا يهلك ـ و ثمر لا يفنى - و من لك بجليس يفيد الشئ و خلافه و البعنس وضدًه - ينطق عن السوتي - و يترجم عن الاحياء -ان غضبت لم يغضب منك و لا يستفيد منك -و یزیدک و لا یستنزید منک - آن جد فعبرة و آن مزح فنزهة قبر الاسرار و مخزن الردائع - قيد العلوم و بنبوع العكم و معدن المكارم - و مونس لا ينام - يفيدك علم الارلين و يغبرك عن كثير من اخبار المتاخرين - هل سمعست في الأوليس او بلغك ان احدا من السالفيس جمع هذه الارصاف مع قلمة مؤرنته رخفة معمله لا ينقصك شيئا من دنياك - نعم العبيب ر نعم الطلهل *

2. Translate into English one of the following passages:-(a) مسلمة بن عبد الملك كان يكنى ابا سعيد ـ و يلقب البحرادة الصفراء ـ الصفرة كانت تعلوه - و كان شجاعا باسلا ـ و فارسا بطلا ـ فتم في الروم فتوحا كثيرة بين بلاد و حصون و قلاع - منها حصن طوانة و حصن عموريه و اذاروليه و کثیس غیرها یطول شرصه ـ ر فی سنــة ۹۸ هجری جهــز سليمان بن عبد الملك جيشا و على راسه اخوه مسلمة لفتم القسطنطنية - نعبر الخليج رحاصر المدينة فلما اشتد على اهلها البعصار راسلوا مسلمة في ان يعطوه عن كل راس دينارا ـ فابي الا ان يفتعها عنوة ـ فقال عظماء الدرلة للارن البطويق - ان صرفت عنا المسلمهن ملكناك علينا للله استوثق منهم جاء الى مسلمة و استأمنه على نفسه و ذويه و وعده ان يفتم له المدينة اذا هو تنحى بعسكره قليلا ليطمئن اهل المدينة - ثم هو بعد ذلک حرفی ان یکر علیهم ـ فانخدع مسلمة رتنعی الى بعض الرسانيق ـ و دخل لارن فلبس التاج و اقتعد السرير و اعتبزل الملك ثارة و سوس و لبس المسوح معتكفا في كنيسة ـ و لما علم مسلمة بغديعة الون كر راجعا بجيرشه و نزل بفناء القسطنطنية - وظل محاصرا لها اشهراً - و لقى جنده ما لم يلقه جيش آخر حتى كان الرجل يضاف ان يخرج من العسكر رحدة خوف اوللك الذين استجاش لان من البلغار و الفرنم و الروم و غيرهم من الاخباس *

(b) قُسُ بن ساعدة الاياديّ - هو خطيب العرب قاطبة - و المضروب به المثل في البلاغة و العكمة - كان يدين بالتوحيد - و يومن بالبعث - و يقال انه اول

من کال فی خُطبه (اُما بعد) رازل اتا علی سیف ار عصاً فی خطابته و کان الناس بتحاکمون الیه و را عصاً فی خطابته و کاظ هی و ایها الناس اسمعوا می خطابه فی سوق عکاظ هی و ایها الناس اسمعوا را عوا و من عاش مات و را من مات فات و را کل ما هو آت آت و لیل داچ و نهار ساچ و سماء ذات ابراچ و را نجوم تزهر و بحار تزخر و رجبال مرساه و ارض مدحاه و انهار مبحواه و ان فی السماء لخبرا و ان فی الارض لعبرا و ما بال الناس یذهبون و لا یرجعون فی الارض لعبرا و ما بال الناس یذهبون و لا یرجعون ارضوا فاقاموا و ای ارضوا فاقاموا و ای الله قسما دینکم الذی انتم علیه و انکم لااتون می الامر منکرا و دیروی ان قساً انشاء بعد ذلک یقول *

نى الناهبين الاولي من القرون لنا بمائرُ للما المائرُ للما المائرُ للمائل المائل المعالمة حيث صار القوم مائر

3. Translate into Arabic:-

Mercy brings happiness to the man to whom it is shown. It comforts him and soothes him in his distress. It soothes hunger, clothes nakedness, allays pain and gives strength to the drooping spirits. It brings hope and cheer and life to suffering humanity. And it does not do less good to him who bestows it on others. It is a divine attribute. God Himself is love or mercy. The more we develop this quality, the closer becomes our communion with God and the purer is the bliss that exalts the soul.

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FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

'Poetry is a criticism of life.'
 Discuss the merit of the Mu'allaqat you have read, in the light of the above statement.
 Translate into English any three of the following, adding necessary notes:—

الا رب خصم فيك الرمي رددته نصيم على تعذاله غيس موتل و ليل كمرج البحر ارخى سدرله على بانواع الهموم ليبتلى فقلت لها لما تمطى بصلبه و اردف اعجازا ر ناء بکلکل الا ايها الليل الطويل الا انجلي بصبح و ما الاصباح فیك بامثل بل انت لا تدرین کم من لیلة طلق لذيذ لهرها و ندامها قد بس سامرها ر غاید تاجر وافیت اذ رفعت و عنز مدامها اغلى السباء بكل ادكن عاتق او جونة قدمت و فض خلامها و صبوح صافية و جنب كرينة بموتر تاتاله ابهامها بادرت حاجتها الدجاج بسحرة لاعلٌ منها حين هب نيامها (c) و لقد شربت من المدامة بعد ما

ركسد الهواجر بالمشتوف التعلم

بزجاجة صفراء ذات اسرة قرنت باظهر في الشمال مفدم فاذا شربت فانتنى مستهلك مالي و عرضي واقس لم يكلم ر اذا صحوت فلا اقصر عن ندى و كما علمت شمائلي و تكرمي لقد اقدم مقاما لو يقوم به ارى و اسمع ما لو يسمع الفيل لظل يرعد الا ان يكون له من السرسول باذن الله تنويل حتنى رضعت يسيني لا انازعه فى كف دى نقمات قيله القيل لذاك اهيب عندي اذا كلمه و قیل انك منسوب و مسبول من خادر من ليوث الاسد مسكنه من بطن عثب غيل درنه غيل

2. Name the author of the extract (d) in Question 2, and describe 10 the incident to which it refers.

3. Explain with reference to the context:— 19 (a) و جلا السيول عن الطلول كانها

زبر تبعد متونها اقلامها

او رجع واشمة اسف نـؤورهـا

كففا تعرض فوقهن وشامها

الرماح كانها الدعون عنتر ر الرماح كانها الدهم الشطان بئر في لبان الادهم ما زلت ارميهم بثغرة نصرة ولت اللهم متى تسويل بالدم

تجارزت احراسا اليها و معشرا	(c)
علی حراصاً لو یصرون مقتلی	
اذا ما الثريا في السماء تُعرضت	
تعـرض اثنـــاء الوشاح المفضل	
4. Either, 'The poetry of Ibnu'l-Fārid is thoroughly Arabian both in spirit and form.' Discuss fully. Or, Give a short sketch of the life of Ibnu'l-Fārid.	
5. Explain in Arabic, with reference to the context:—	7.5
	(a)
غدروا وفوا ـ ه ج روا ر ث وا ل ضنائ ي	
ر هم عیاذی حیث لم تغن الرقی	
و هم ملاذي في الهوى و رضائي	
أها لآيامنــا بالخفيف لـر بقيت	<i>(b)</i>
عشرا ر واها علیها کیف لم تدم	
هیهات را اسفی لو کان ینفعنی	
او کان يجدي على ما فات وا ندمي	
يقولون لي صفها فانت بوصفها	(c)
 خبير - اجل عندي بارصانها علم	
صفاء و لا ماء و لطف و لا هوا	
و نور و لا نــــار ر روح و لا جسم	
6. Explain any six of the following:-	9
وجد ۔ شوق ۔ هيهات - جون العيس ۔ خذروف الوليد ۔	
فافية الغراب - الرصم الاصم - الرشاة - شم العرانين - الليلة الليلاه	
7. Give the context and translate into English:-	6
لعل اصيعابي بمكة يبردرا	
بذكر سليمي ما تبين الاضالع	
ر عمل اللكيلات التي قد تصرمت	
تعود لنا يوما فيظفر طامع	
ر یفرح صعزون و یعیی متیم	
ر بانس مشتاق ر یلتن سامع	
	7

15

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. (a) Translate into English:—
1. (a) Translate into English:— و قنفوهم انهم مستُولون ما لكم لا تناصرون بل هم اليوم
مستسلمون و اقبل بعضهم على بعض يتساءلون قالوا انكم كنتم
تاتوننا عن اليمين قالوا بل لم تكونوا مؤمنين و ما كان لنا
عليكم من سلطان بل كنتم قوماً طاغين فحق علينا قول ربنا
انا لذائقون فاغريناكم انا كنا غارين فانهم يومئذ في العذاب
مشتوكون انا كـذلك نـفعل بالمجرمين انهم كانـوا اذا قيل لـهم
لا الله الا الله يستكبرون و يقولون أئنا لتاركوا ألهتنا لشاعر
مجنون بل جاء بالعق و مدق المرسلون انكم لذائقوا العذاب
الاليم الاعباد الله المخلصين *

الاليم الاعباد الله المخلصين *	
نقفوا of تعليل and قفوا of قفوا	3
(c) Why is الف dropped from the end of	2
خاصة الباب and باب of مستسلمون of غاصة الباب and باب	; . a
ركوا الهتنا and ذائقوا العذاب dropped in نون اعرابي why is (ه)	2 تا
to be الا عباد الله المخلصين in the above extract بادالله	10
explain fully. و منقطع or مستثنى متصل Explain fully.	
2. (a) Explain, in Arabic, with شأن فزول after :—	18
ٱيْحُسَبُ ٱلْإِنْسَانَ ٱلْنَ نَجْمَعُ عِظَامَهُ بَلَى قَادِرِينَ عَلَى أَنَّ نُسْرِي	
بُنَانَهُ	
(b) What is the original form of النان !	2
(c) Give the difference between بُلُى and بُلُى.	8
in Question 2 (a). قادرين of قادرين	6
3. Relate the history of الاخدود .	9

4. Give the idea of الرويا about about الكهانة الكهانة الكهانة

5. Explain, in English, with reference :-

الا من يشتري سهر ا بنوم * سعيد من يبيت قرير عين فلما حمير غدرت ر خانت * فمعندرة الاله لذي رعين

6. Translate into Arabic:-

20

9

I found myself in a country that was quite new to me and dared not return to the main road lest I should again fall into the hands of the robbers. Luckily my wound was only a slight one, and after binding it up as well as I could, I walked on for the rest of the day, till I reached a cave at the foot of a mountain, where I passed the night in peace, making my supper of some fruits I had gathered on the way.

SIXTH HONOURS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

A. MUSLIM HISTORY.

Answer three questions only.	
 Give a brief account of the achievements of 'Umar the Firs'. Mention the memorable actions of Al Ma'mūn. Sketch the literary progress of the Muslims under the Khalīfa 	10 10 10
Al-Hārūn. 4. State why the battle of Tours is reckoned among the fifteen decisive battles of the world?	10
B. HISTORY OF ARABIC LITERATURE.	
Answer any four questions.	
 Give a brief account of the pre-Islamic poetry of the Arabs. State the influence of the Qur'an on the development of Arabic literature. 	10 10
3. Compare the style of the following three books, viz., Kalīlah and Dimnah, the Hamāsah and the Dīwān of Mutanabbī.	7.0
and his poetry. کعب بن زهیر	10
5. Write notes on any three of the following:	10
ابن سينا *	
(b) جار الله زمخشرى * (c) الفرزدق *	
(c) الفرزدق *	
(d) جلال الدي ن السيوطى *	

10

C. RHETORIC AND PROSODY.

Answer any THREE questions.

10 بينوا انواع العلاقة في المجاز المرسل بالتصريم و ال**تمثيل** 1.

10 ميزوا بيس الحقيقة و المجاز بالتشريم

10 أذكروا الاستعارة بالكناية والاستعارة التخييلية بالتمثيل

تعرید ـ ترشیم ـ تشبیه *

5. Scan the following, and specify the metre:

نقد اتیت رسول الله معتذر ا و العند عند كمام الناس مقبول

ARABIC

Examiners— KHAN BAHADUR MD. HASSAN.

MAULVI A. F. M. ABDUL KADIR, M.A.

KHAN BAHADUR ABDULLAH ABU SAYEED, M.A.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:-

(a)

18

اشد الجهاد جهاد الهبرى * ر ما كرم المرا الاالتقى ر اخلاق ذي الفضل معروفة * ببذل الجميل و كفّ الأذى ر كل الفكاهات مملولة * ر طول التعاشر فيه القلى ر كل طريف له لذة * ر كل تليد سريع البلى ر لا شي الا له أفة * ر لا شي الا له منتهى را)

الله عن شجود الاسلام من علمائه * فما اكترثوا مما رار من بكائه فاكثرهم مستقبع لصواب من * يضالفه مستحسن لخطائه فايهم المرجو فينا لدينه * ر ايهم المرثوق فينا برايه فايهم المرجو فينا لدينه * ر ايهم المرثوق فينا برايه

الا رب ذي اجل قد حضر * كثير التمني قليل التعذر اذا هز في المشى اعطافه * تعرفت في متكبيه البطر يـومل اكثر من عمره * و يـزداد يـومل بيوم اشر و يمسي و يصبع في نفسه * كريم المساعي عظيم الغطر يريش و يبري و في يومه * له شغل شاغل لو شعر يعد الغرور و يبنى القصور * و ينسى الفناء و ينسى القدر و ينسى القرون و ويب المنون * و ينسى الغطوب و ينسى العبر يبجرعه العرص كاس العمى * و يحمله فوق ظهر الغور

2. Write notes on ten of the underlined expressions in the extracts in Question 1.

3. Describe the character of Abū'l-Atāhiya as it is revealed in 10 his poems.

4. Explain in simple Arabic :-

ایاك ر الامر الذي ان توسعت مديدك المصادر موارده خاقت علیدك المصادر فما حسن ان یعذر المرء نفسه و لیس له من سائر الذاس عاذر

5. Translate into English:-

(a)

10

18

ان الامور اذا انسدت مسالکها فالصبر برتق کل ما ارتبعا لا تیاسن ر آن طالت مطالبة اذا استعنت بصبر آن تری فرجا قدر لرجلك قبل الغطر مرضعها فمن علا زلقا من غرة زلجا و لا يغرنك صفر انت شاربه فرابما كان بالتكدير تمزجا

```
ر لست بنىي رجهين فيمن عرفته
  و لا البخل فاعلم من سمائي و <sup>لا</sup> ارضي
                    ر انى لسهل ما تغير شيمتي
  صروف اليالي الدهر بالقتل و النقض
                    اكف الاذي عن اسرتي و اذوده
  على انتني اجزى المقارض بالتفرض
                   و امضي همومي بالزماع الهلها
 اذا ما الهموم لم يكد بعضها يمضى
                   الم تُعلمي اني اذا النفس اشرفت
 على طمع لم انس أن أتكرما
                    و لست بلوام على الامو بعدما
 يفوت ر لكن على ان اتقدما
6. Render into simple Arabic :--
                    النبئس و الايام ذات تجارب
 و تبدي لك الايام ما لست تعلم
                   بان شراء المال ينفع ربه
 ر يثنى عليه العمد ر هو مذمم
                   و أن قليل المال للمرء مفسد
 يحز كما حز القطيع المحرم
                  يرى درجات المجد لا يستطيعها
 ر يقعد وسط القوم لا يتكلم
                   و ما انا بالساعي بفضل زمامها
لتشرب ماء العرض قبل الركائب
                   و ما إذا بالطاري حقيبة رحلها
لابعثها خفا ر اترك صاحبى
```

اذا كنت ربا للقارص فلا تدع رفيقك يمشي خلفها غير راكب انخها فاردفه فان حملتكما فذاك ران كان العقاب فعاقب

7. Write notes on any ten of the underlined expressions in the shove extracts.

SECOND PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following:-

22

حدث العارث بن همام قال انست من قلبى القسارة حين حلست ساوة - و اخنت بالغير الماثور - في مداراتها بزيارة القبور - فلما صرت الى معلة اموات - ركفات الرفات - رايت جمعاً على قبر يعفر - و مجنوز يقبر - فانكرت اليهم متفكرا في المال - متذاكرا من درج من الآل - فلما العدرا الميت وفات

قول ليت - اشوف شيخ من رباوة - متخصرا بهرادة - رقد لفع وجهه بردائه - و نكر شخصه لدهائه - نقال لمثل هذا فليعمل العاملون فاذكروا ايها الغافلون - وشمورا ايها المقصرون و احسنوا النظر ايها المتبصرون - ما لكم لا يعزنكم دفن الاتراب - و لا يهولكم هيل التراب - و لا تعبارن بنوازل اللحداث - و لا تستعدون لنزول اللجداث - و لا تستعبرون لعين تدمع - و لا تعتبرون بنعي يسمع - و لا ترتاعون لالف يفقد - و لا تلتاعون لمناحة تعقد - يشهع احدكم نعش الميت - و قلبه تلقاء البيت *

C.

و بقى القصر خرابا لا يجسر احد دخرله لانه ظهر فيه شجاع عظيم و كان يسمع من داخله انين كانيس المرضى رقد اخبر الله تعالى عنهم و إمثالهم بقوله فكايس من قريبة الهلكناها رهى ظالمة فهى خاوية على عررشها ربئر معطلة وقصر مشيد و البئر المعطلة كانت بعدن سنذكرها أن شاء الله تعالى و بها قبر هود النبي عليه السلام قال كعب اللحبار كنت في مسجد رسول الله صلعم في خلافة عثمان رفه فاذا برجل قد رمقه الناس لطوله وقال ايكم ابن عم معمد وقال الرجل قد رمقه الناس لطوله فقال الكم ابن عم معمد وقال الله على من المن به صغيرا و فارموا الى على بن ابن عمه وقال على ممن الرجل و فقال على ممن الرجل و السدّرة العمر أء التي يقطر من اور اقها ماء في موضع الاراك و السدّرة العمراء التي يقطر من اور اقها ماء في ممن أنك نعدنني *

2.	(a) Give the	اد کررا of the word باب مoot باب and ادکررا.	3
	(b) Give the	لَتُعْلَىٰ وَ تَعْلَيْلُ مِي مَيْعَهُ	3
	(c) Give the	صيغه with examples of the same شكور of صيغه	2

(d) State when منادى becomes م

(e) Explain کان تامه and کان تاهه with examples.

it

• •	
ontains two causes of عرف	منع
why is it still منصرف ?	8
(g) Explain the term (E)	8
3. (a) Explain :—	16
الحمد لله الولي الحميد ـ العبدي المعيد ـ البعيد في	
قربه من العبيد - القريب في بعده فهر اقرب من حبل الوريد	
معي ربوع العارفين بتحيات حياة التوحيد - ر مغني نفوس	
الزاهدين بكنوز احتقار الانتقار الى العرض الزهيد ـ و مخلص	
خواطر المعققين من سجون دجون التقليد الى فسم التجريد -	
نعمده و له العمد المنتظمة درره في سلوك و سموط التابيد ـ	
حمد من نزه احكام واحدانيته و اعلام فردانيته عن مرابط التفييد ـ	
ر منعابط الطبع البليد *	
(b) Give the singulars of سلوک and سموط	3
and عمر بي عبد العزيز and ashort account of the life of	14
mention in which point of faith he differs from other Umayvad caliphs.	1.4
5. (a) Explain :— تبا لطالب الدنيا لا بقاء لها	14
• • • • • • • • • • • • • • • • • • • •	
لانما هي ني تصريفها حلم صفاءها كدر سراءها ضرر	
اصانها غدر انبوارها ظلم	
شبابها هرم راحتها سقم	
لذاتها ندم رجدانها عدم	
فخل عنها و تركن لزهرتها	
فانها نعم في طيها نقم	
(b) Give the singular of and mention what kind of pluril is. Illustrate with examples.	3
6. Relate the story of کریم الملک referring to the following lines:-	
اهددت لك العنبر في جوفه	
زر من التبسير خفى اللحم	
فالزر و العنبسر معنساهما	
رُ وَمَدُا مُختفيا في الظلم	
••	

(a)

THIRD PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English :-

لك العمد ر النعماء و الملك ربنا فلا شئ اعلى منك مجدا ر امجد مليك على عرش السماء مهيمن لعزته تعنوا لرجوه ر تسجد فسبعان من لا يعرف الخلق قدره و من هو فوق العرش فرد مرحد هر الله بارى الخلق ر الخلق كلهم اماء له طوعا جميعا و اعبد مليك السموات الشداد ر ارضها يدرم و يبقى ر الخليقة تنف

(6) كتب عصر بن عبد العزيز رضي الله عنه لما رلى الغلافة الى العسن بن ابي العسن البصري ان يكتب اليه بصفة الامام العادل فكتت اليه العسن - اعلم يا امير المؤمنين ان الله جعل الامام العادل صلاح كل فاسد - قرة كل ضعيف - ر نصفة كل مظلوم - ر الامام العادل يا امير المؤمنين كالراعي الشفيق على ابله - الرفيق النبي يطلب لها اطيب المرعى - ر يزودها عن مراقع المهكة - يحفظها من السباع - ر يكنفها من ادى العر و البرد - ر الامام العادل يا امير المؤمنيين كالاب الشفق على رلده - يسعى لهم صغارا - ر يعلمهم كبارا - ر يكتسب لهم في رلده - يسعى لهم معارا - ر يعلمهم كبارا - ر يكتسب لهم في كالم الشفيقة برلدها - مملته كرها - ر رضعته كرها - رتبته طفلا - كالم الشفيقة برلدها - حملته كرها - ر رضعته كرها - رتبته طفلا - تسكن بسكونه ترضعه تارة ر تفطمه المرى ر تفرح بعافيته و تغتهم بشكايته *

2. Translate into English any one of the following extracts:-

A.

جلال الدين سيوطي

هو عبد الرحمن جلال الدين بن الامام كمال الدين السيوطي ـ العالم المحدث الفسر صاحب التصانيف المشهورة ـ ولد سنة ١٩٩ هجرى ـ و نشاء يتيما وحفظ القرآن وعموه دون شمان ـ ثم حفظ كتب الفقه و النحو ـ و اخذ العلم من مشائخ وقته ـ و ابتدأ في التصنيف و سنه ١٧ سنة ـ ثم لزم الاشياخ و طلب العلم في بقاع الارض ـ فدخل الشام و الحجاز و اليمن وهند و نبخ في كثير من العلوم ـ و تولى التدويس و الافتاء ـ و لم يكن احد اشهر منه في زمنه ـ و بعد السيوطي من الائمة الذين حفظوا العلم للخلف ـ و سهلوا سبيله للمتاخرين و قد ترك للناس اكثر من نلثمائة مصنّف ـ و توفى سنة المتاخرين و قد ترك للناس اكثر من نلثمائة مصنّف ـ و توفى سنة المتاخرين و قد ترك للناس اكثر من نلثمائة مصنّف ـ و توفى

В.

قال المامون - ان العلم لا يدرك غورة - ر لا يسبر قعرة - ر لا تبلغ غايتة - ر لا يعد اقسامة - و لا يضبط اخرة - فاذا كان الامر كذلك فابدأوا بالفرض قبل النفل - فاذا فعلتم ذلك كان عدلا ر قولا صدقا - ر قد قال بعض العلماء - خذ من اقسام العلم ما هو اشهى الى نفسك و اخف على قلبك - قال ايضا بعض العلماء - لسن اطلب العلم طمعا في بلوغ غايته و الرقوف على فهايته و لكن التماس ما لا يسع جهله و لا يحسن بالعاقل اغفاله - و قال آخرون - علم الملك النسب و الخير - و علم التجار الحساب و الكتاب - و علم اصحاب العرب درس كتب المغازى و كتب السير - و العلم بصر و خلافه عمى *

3. Translate into Arabic :---

In the reign of Hārūnu'r-Rashīd, there lived in Baghdād a merchant named 'Alī Khwāja. He had neither wife nor child. But he lived in content on the modest profit of his trade. Que night he dreamed that an old man stood beside his bed and reproached him, saying, Why do you not go on the pilgrimage to Mecca? 'Alī Khwāja did not pay much attention to this dream. But when the same dream came three nights in succession, he became alarmed, and thought that if he did not obey the old man, some misfortune would befall him.

PERSIAN

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FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English, adding explanatory notes where 24 necessary:—

در ازل پرتر حسنت ز تجلی دم زد

عشق پیدا شد ر آتش بهمه عالم زد

جلوهٔ کرد رخت دید ملک عشق نداشت

عین آتش شد ازین غیرت ر بر آدم زد

عقل میخواست کزان شعله چراغ ا فررزد

برق غیرت بدرخشید ر جهان برهم زد

مدعی خواست که آید بتماشاگه راز

دست غیب آمد ر در سینهٔ نامحرم زد

دیگران قرعه قسمت همه بر عیش زدند

دل غمدیده ما بود که هم بر غم زد

قظری کرد که بیند بجهان صورت خویش	
خیمه در آب رگل مزرعهٔ آمم زد	
هست گرچه گبر هم يزدان پرست	
لیک قصد او سراد دیگرست	
قلعهٔ سلطان عمارت میکند	
لیک دعوی امارت میکند	
گشته باغی تاکه ملک اورا بره	
عاقبت خود قلعه سلطان را شود	
صوصن آن قلعه برای بادشاه	
میکند معمور نی از بہر جاہ	
زشت گرید ای شه زشت آفرین	
قادری بر خوب و بر زشت مهین	
خرب گرید ای شه حسن ر بها	
پاک گردانیدیے از عیبها	
2. (a) Give a critical appreciation of the poetry of Hāfiz.	13
(b) Assign the place of with in Persian Masnivi. How far is Rūmī indebied to Sanā'i and 'Attar? Discuss.	19
3. (a) Write critical notes on any three of the following:—	9
 گلبانگ پہلوی _ گوسالۂ سامری _ ابراھیم ادھم _ دقیانوس 	
طامات ر ش (b) Write philological notes on :	•
أسمال سردادار برندان بريوان بركونانو مرزوم	9
Explain fully any three of the following:—	18
چه سازی همیی زین سرای سپنج	(a)
چه نازی بنام و چه بازی بگنج	
ای کبک خوشخرام کجا میروی بایست	(b)
عُرَّه مشر که گربهٔ عابد نماز کرد	
جنگ هفتاه ر در ملت همرا عذر بنه	(c)
میں ندیدن حقیقت در افسانه زدند	

(d) بهر این بر گفت احمد در غطات دائما از قرق عیدنی ضی الصّارة

5. (a) Give in Persian the summary of—

Lither, كلمو الناس على قدر عقولهم

11

. كنت كنز ا مخفيا فاجببت ان اعرف فخلقت الخلق .٠٠

(b) Substitute words of Modern Persian for any eight of the following:—

- دستور ـ نژند ـ ستارة شمر ـ اندرخور ـ پاسخ ـ مايه ـ ايد * نبرد ـ كرد ـ بخردان

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1 Translate into English :-

ĸ

بعد ازان بزم آرای درران در عشرت سرای ایران ساز ناسازی کوک کرد - در هر گوشه از مخالف ر موالف نواها ر از هر سری چون کاسهٔ طنبور صداها بر خاسته - ترک و تاجیک چنگ آسا سینه بناخن حسرت خراشیدند - ر کوچک ر بزرگ قانون خرمی از دست داده در دائرهٔ محنت کف زنان افسوس شدند و هر جا قری دستی بود سر از گریبان خودسری ر گردن فرازی در آررده پا از اندازه بیرون گذاشت - ازان جمله ملک محمود سیستانی بطریقی بیرون گذاشت - ازان جمله ملک محمود سیستانی بطریقی بیرون گذاشت - ر حضرت ظل اللهی تا آن آران در سرصدات بر افراشت - ر حضرت ظل اللهی تا آن آران در سرصدات مشغول ملک داری بردند *

2. (a) What is the literal and original meaning of How did it acquire the sense in which it is used in the above extract?

(b) Describe briefly the historical events to which the above

extract refers.

(c) Who is meant by حضرت ظل اللهي in the above extract?

Show that the idea expressed by the Arabic epithet ظل الله is of Persian origin.

3. Explain with reference to the context any three of the following:—

(a) گذے طاعت شود بر صاحب خریش

نهد چون عفو او پا در میانه

(b) ره ملک سعادت میتواند بی خطر رفتن

بدست خود ز آئیں ادب هر کس عصا دارد

(c) تواند طی کند صردانه راه ملک و دولسوا

کسی کز راه و رسم حق پرستی با خبر باشد

(d) نرود کس ز عطا خانهٔ جودت محروم

کانے مقصود بمعماری لطفت بر پاست

4. Translate into English:—

اگر ناشرین ادیان مبعوثین من هستند ـ پس همه حق گریند ر طریقه راحده مي پریند ـ ر اگر دیگران با عنارین مختلفه خدا مي خواهند ر خالق مي جویند چون جز من خدای دیگر و خالق مکرر نیست البته مقصود ر مرجع توجه آنها باز منم ـ ای دیوجان ـ رحدت الله را ذرات کائنات گواه است ـ زیراکه موجودات مرکب از ذرات است ـ رو هر ذره في حده هم راحد و هم حامل رحدت مي باشد ـ پس ذره در کائنات نیست که منکر خود یا منکر رحدت من گرده ـ راگر منکری پیدا شد همان وجود از اقرار اوست *

- 5. Write a biographical note on the author of جہانکشای نادری 10 and estimate the historical worth of the work.
- 6. (a) Show that عروف (i.e., the art of versification), though serving a useful purpose, is not indispensable for versification.

e

(b) Scan the following and name the metre:—

شاد باش ای عشق خوش سودای ما ای طبیب جمله علتهای ما

7. Re-write in your own Persian either A or B, adding explanatory notes in brackets, where necessary:—

Α

درین بین از مبارزان مرد قصیر القامهٔ که قدش به کو فتن چماق بزرگ بر سر حریف بلند بالای خود نارسا بود -

به سکوی مغازهٔ بلور فروش بر جست ماحب مغازه خواست پائیدش اندازد مهاقرا بلند کرد بزند مخررد به چهل چراغ آریزان بزرگ و شکست می هر شکسته بدیگری و دومی بسومی میخورد میازه اسباب میافتاد و میشکست مدو لمحه آن همه اسباب قیمتی بیک تل شکسته بی مصرف مبدل شد *

 \mathbf{B}

چون سلطان دار القرار ابتلا ـ یعنی مهر جهان آرا بعزم تسخیرشهرستان حمل رایت اعتلا افراخته ـ با شکر بهار
برهم زن هنگامهٔ بهمن ر غارت گر شهر دی گشت ـ ر افغان
هزار دستان با هزار داستان شور افزای فرح آباد چمن ر
هزاره بلبل ر بلوچ خارائی گل مالک پای تخت گلشن
گردین ـ محمود یان با کمال شوکت ر استیلا دست بتاخت
ر تماز دراز کرده باندیشهٔ این که اصداد از طرفی باصفهان
فراهد رسید سلك جمعیت خودرا از هم نمی پاشیدند *

8. Compare the style of مسالك المحسنين with that of جہاں كشامى نادرى

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THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translate into English any two of the following:

 A.

50

نشست از خداوند متعال در ضیر خریش دستگیری و معارنت خراسته ر بدر ترسل و ترکل جسته گفتم برای من اسلم طرق ر احسن شقرق طی راه از ساحل ردد خانهٔ جمناست - فررا ایشان رای مرا پسندیدند - اما افسرس که جبرن قلم قضا نه بر رضای ما رفته و بعکم ازلی خاتمت سر نوشت ما درین دار فانی جز فنا و تباهی چیزی نبود پیرری رأی من که اهون تر از

دلالت غراب بود نتایج مشرمه بخشید مطلیعهٔ مبع بخدراست خدا و حکم قضا راه انتادیم دو ساعت تمام در ساحل این رودخانه از بیراهه عبور کرده گاهی در زمین شن نوو میرنتیم و گاهی در آجام و با تلاقها گیر میکردیم مفیر و صدای خزنده قلب مارا متزلزل مینمود و بواسطهٔ نداشتن چتر و نبودن درختی که سایه بر سر ما انگذد و ناچار در آن ظل گرم استرائی که هوا و زمین را مانند تنور افروخته و آهن گداخته کرده برد نمیترانم بگریم چه بر ما و اطفال بیچاره ما گذاشت *

دورة طلائي اسلام از حيث تمدن همان عهد خلفاي عباسی است و چنانکه گفتیم این دوره از پرتو دوشئون اجتماعی که یکی وجود خلفای علم دوست فضیلت پرور ر دیگری رجود نقها و علمای متدین و صمیمی و با حمیت بود بوجود آمد - و هرچه امروز بنام تمدن اسلامی نامیده میشود بیشترش معصول این دوره و اغلب تولید کنندگان أنهم غير عرب بوده است - درين نهضت اسلامي از ميان خلفا مأمرن ر رزرای ایرانی عباسیان یعنی برمکیان ر از زمرهٔ علما ر نقها نیز فرقهٔ معتزله بهرهٔ رافر دارند و سزاوار هر گونه مدح و ستایش میباشند - فرقهٔ معتزله جمعی از فقها و علما بودند که بمنقولات چندان اهمیت نداده در اثبات احکام دین ببراهین عقلی متمسک میشدند ر قوانین مذهبی را به احکام عقلی تطبیق میکردند ر مسائل بسیار مهم فلسفی را مانند کون و ظهور و اثبات و نفی و حدوث و قدم را موضوع بعث و مناقشه قرار داده با براهین عقلی ر منطقی ر قیاس به اثبات عقاید خود میکوشیدند *

C.

درین مقرنس زنگار خورد درد اندود

مرا بکام بد اندیش چند باید بود

به آه ازین قفس آبگون برارم گرد

چرنیت هیچ تمیز از قصور عقل چه نقص

چرنیت هیچ سخندان وفور عقل چه سرد

ز بس تراکم احداث در سرای رجود

بافتاب اگر این سرم فرد آید

بافتاب اگر این سرم که ز گردونش در ربایم زرد

به حسن تدبیر از صه کلف توانم برد

نمیتوانم ازین تیغ بخت زنگ زدرد

ز تیغ گرهردار از نیام آسوده است

مرا ز تیغ زبان این نیام تن فرسود

به آفتاب ر عطارد چه التفات کنم

2. Translate into Persian :-

Nature had largely endowed William with the qualities of a great ruler; and education had developed those qualities in no common degree. With strong natural sense and rare force of will he found himself, when first his mind began to open, a fatherless and motherless child, the chief of a great but depressed and disheartened party. The common people, fondly attached during a century to his house, indicated whenever they saw him, in a manner not to be mistaken, that they regarded him as their rightful head. The able and experienced ministers of the republic, mortal enemies of his name, came every day to pay their feigned civilities to him, and to observe the progress of his mind. The first movements of ambition were carefully watched: every unguarded word uttered by him was noted down; nor had he mear him any adviser on whose judgment reliance could be placed. He was scarcely fifteen years old when all the domestics who were attached to his interest, or who enjoyed any share of his confidence, were removed from under his roof by the jealous Government. He remonstrated with energy beyond his years, but in vain. Such situations bewilder and unnerve the weak, but call forth all the strength of the strong.

50

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Explain in Persian with reference to the context :-	12
این خماهن گون که چون ریم آهنم پالود و سوخت	
شـد سگاهی پوشش از درد دل دررای من	
رری خاک آلود من چون کاه بر دیرار جس	
از رخم که کل کند اشک زمین اندای من	
مار دیدی در کیا پیچان کنون در غار غم	
مار بین پیچیسه در ساق گیا آسای من	
اژدها بین حلقه گشته خفته زیر دامنم	
زان نه جنبم ترسم آگه گردد اژدرهای من	
تا نترسد این در طفل هند ر اندر مهد چشم	
زیر دامن پوشم اژدرهای جانفرسای من	
2. Explain the idea contained in	6
عمر پل است رخنه سر حادثه سیل بل شکن	
کوش که نارسیده سیل از پل رخنه بگذری	
آنکه غم جهان خورد کی خورد از حیات بس	
پس تو غم جهان مغور تا زحیات بر خوری	
3. Explain the allusions in Persian of any two of the following:—	
موسی از بهر صفورا کند آتش خواهی	(a)
ران شبانیش هم از بهر صفورا بینند	
سامری سیرم نه موسی سیرتم تا زنده ام	(b)
در سم گرساله آلاید ید بیضای من	
درا در رادی ایمن که ناکاه	(c)
درختی گریدت اِنِّی اُنا الله	

4. Give in simple Persian the substance of one of the following extracts and the meaning of each bait in the same:—

A

رخش بهرا بتاخت بر سر صفر آنتاب

رفت بچرب آخری گنیج روان در رااب

كعلى چرخ از گشت مسلسل بشكل

عودی خاک از نباتگشت مهلهل بتار

ررز چو شمعی بشب نورده و سرفراز

شب چر چراغی بروز کاسته و نیم تاب

دردی مطبوح بین بر سر سبزه ز سیل

شیشهٔ نارنم بین بر سر آب حباب

 \mathbf{B}

در طریق کعبهٔ جان چرخ زرین کاسه را

از بی دریوزهٔ جان _{کا}سهٔ گردان کودهٔ اند

کشتگان کز کعبهٔ جان باز جانور گشته اند

ماهی خضر اند گوئی کاب حیوان دیده اند

کعبهٔ جان زانسوی نه شهر جری و هفت ده

کیس در جارا نفس اسیر و طبع دهقان دیده اند

بر گذشته زین ده ر زان شهر در اقلیم دل

كعبة جان را بشهر عشق بنيان ديده اند

5. Annotate in Persian :-

16

رجود آن جزو دان کز کل فزرن است

که مرجود است کل وین باز گون است

برد موجود را کشرت برونی

که از رحدت ندارد جز دررنی

وجود کل ز کثرت گشت ظاهر

که از در رحدت جزرست سائر

چر کل از رری ظاهر هست بسیار

شود از جزو خود کمتر بمقدار

6. Give in Persian the substance of one of the following:—

درو بنگر به بین آنشخص دیگر یکی ره باز بین تا چیست آنعکس

نه اینست و نه آن پس کیست آنعکس

خور مین هستم بذات خود تعیین

نمیدانم چه باشد سایهٔ مین

عدم با هستی آخر چون شود ضم

نباشد نور و ظلمت هر در باهم

جز از مین اندوریی معسرا دگرنیست

بگر با می که تا صوت و صدا چیست

(ه) وصال اینجایگه رفع خیال است چر غیر از پیش برخیزه رصال است مگر ممکن : حد خریش بگذشت نه از راجب شد ر نه راجب از گشت هر آنکس در معانی گشت فائق نگرید کین بود قلب حقائق هزاران نشأه داری خواجه در پیش

> 1**9** 20

برر آمد شد خودرا بیندیش

7. Write a critical note on Khāqānī as a poet.

8. Translate into Persian :-

When the morning broke upon us, we saw none of our pursuers, and began to indulge the hope that they had given up the chase. We had, however, only made four miles in eight hours, and our prospect of escape can scarcely be said to have improved. About 7 a.m. we saw some natives bathing, and persuaded a coolie to talk with them, and try to induce them to give us some food. The fellow took from us eight rupees, and procured from one of the bathers a promise to obtain food. This man left his lota as a guarantee for his fidelity, but we saw no more of him.

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English:

10

چون آثار این کواکب ر قسط این عناصر تاثیر کرد از آن نقطهٔ موهوم منعکس شد از میان خاک ر آب بمعونت آتش ر باد این جمادات پدید آمد چون کوهها ر کونها چون برق و صاعقه ر رعد ر باران و کواکب منقضه ر ذر ذابه ر نیازک ر عصی ر هاله و حریق و زلزله ر عیرن گوناگون چنانچه در "آنا علویه" این را شرح تمام داده شده است ر درین مختصر نه جای شرح ر بسط آن بود *

2. (a) Narrate the circumstances in which the quatrain beginning with

گر عیب سر زلف بت از کاستن است was composed.

(b) Explain fully :-

7

7

گر آدمی صفتی از ملک گرو ببری

که سجده کاه ملک خاک آدمی زاد است

6

(c) Write notes on any three of the following :-عررة الرثقى ـ چار دانگ عالم ـ سهم الغيب ـ قلعه اسفيد ـ
نفس ناطقه ـ

3. Either, Give an account of the life of Nizāmī 'Arūzī and 10 discuss the importance of the Chahār Maqāla.

Or, Give the various sub-divisions of عدادة.

4. Answer either Group A or Group B :-

GROUP A.

(a) Translate into English:-

8

إنّا نتصنا لك نتحاً مبيناً ليغفرك الله ما تقدم من ذنبك و ما تاخر و يتم نعمته عليك و يهديك مراطاً مستقيماً و ينصرك الله نصراً عزيزاً *

(b) Comment on the above verse in Persian.	6
was سورة الفتم (c) Narrate the circumstances in which سورة الفتم	8
revealed. (d) Etther, Write notes on:—	10
مسجد الحرام ـ حرب خيبر - بيعت الرضوان ـ كلمة التقوى ـ منا	
Or, What do you understand by اخوان الصفا ? What was its	10
aim and object? Who were its principal members?	
(e) Translate into Arabic:—(i) This is the judge; (ii) Hast thou this book?; (iii) No, I have that; (iv) What is your name?; (v) My name is Hasan; (vi) How old are you?	30
GROUP B.	
Write an essay in classical Persian on one of the following subjects:	60
 (a) The Ismā'īlia movement. (b) Sa'dī as a poet and a prose-writer. (c) Village life. 	
SIXTH HONOURS PAPER	
Candidates are required to give their answers in their own wo rds as far as practicable.	
The figures in the margin indicate full marks.	
Muslim History.	
Answer any THREE of the following.	
1. How would you account for the amazing ease and rapidity with which the Arabs, though far inferior to the Persians in civilization,	10
military training and numbers, were able to conquer Persia? 2. Enumerate and describe the disabilities under which the Persians laboured under the Umayyad rule. To what extent were	10
they relieved of them by the 'Abbasids? 3. Sketch the career of the founder of the Saffarid dynasty in	10
Persia. 4. Describe the means devised and the policy adopted by the Safāvids to bring about the political unity and prosperity of Persia.	10
How far did they succeed? 5. 'Indians themselves were mainly responsible for the Muslim	10
invasions of India.' Criticize the statement.	-
HISTORY OF PERSIAN LITERATURE.	
Answer any FOUR of the following.	
1. How did the conquest of Persia by the Arabs affect the language and subsequent literature of the country?	10
2. Compare the Sāmānids with the Ghaznavids in regard to the patronage of letters.	70

- 3. Are the fabulous tales told in the Shāhnāma the products of Firdausī's own fertile imagination or based on ancient tradition? Name some of the works embodying these traditions.
- 4. 'Hāfiz was the king of all the ghazal-writers of Persia.' 10 Refute or justify the verdict with arguments.
- 5. The Timurids are credited with widening the range of Persian literature. Point out the directions in which this expansion took place.
- 6. When, under what circumstances, and by whom were the following books written? What is the subject matter of each?—

سیاست نامه د اخلاق ناصری د دانشنامهٔ علائی د فرهنگ جهانگری د قران السعدین *

RHETORIC AND PROSODY.

1. Define and illustrate any four of the following:— 6
ایہام - براعت استہلال - تنسیق الصفات - غلو - غلو عکس - لزوم ما لا یلزم *

2. Name and explain the figures of speech in any three of the following:—

- (a) از روزگار رتبهٔ عالی طلب کنند یارب که سر بلند نمائی بدارشان ـ
- (b) گفتمش درمان من کن گفت خواهد شد بصبر گفتمش گر من بمیسرم گفت این هم میسود
- و) دل عکس رخ خوب تو در آب رران دید رالـه شـد و نریاد بر آورد کـه ماهی
 - (a) فروشه بماهی و بر شه بماه

بن نیرزه ر قبیهٔ بارگاه

- 3. Explain any four of the following terms with an example of each:-
- بعر رکن حرف تاسیس حرف دخیل زحاف -قانیه شائگان -
 - 4. Scan any three of the following :-
- (a) نعل می بستند روزی اکد شانت را بروم حلقهٔ گم شد ازان در گوش قیصر یافتند
- ه) در بزم رصال تو بهنگام تماشا نظاره ز جنبیدن مژکل کله دارد

(c) بمعشر حرف بی صرت است فریاد شهیدانش نمی دانم که داد این سرمه چشم نیم خوابش را (d) در کوی نیکنامی مارا گذر ندادند گر تو نمی پسندی تغییر کن قضارا

Examiners— { MAULVI M. MAHFUZUL HAQ, M.A. ,, SYED MUZAFFARUDDIN AHMAD, M.A. AGA MD. KAZIM SHIRAZI.

FIRST PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English :-

24

شگفته شد گل حمرا رگشت بلبل مست

صلی سرخوشی ای عاشقان باده پرست

اساس تربه که در معکمی چر سنگ نمود

بیس که جام زجاجی چه طرفه اش بشکست

بیسار باده که در بارگاه استغنا

چه پاسبان رچه سلطان چه هرشیار رچه مست

زین رباط دو در چر ضرورتست رحیل

رواق رطاق معیشت چه سر بلند رچه پست

مقام عیش میسر نمیشود بی رنج

بلی بعکم بلا بسته اند روز الست

شکوه آصفی ر اسپ باد و منطق طیر

بباد رفت و ازو خواجه هیچ طرفه نبست

چهل روز بگذشت ازان خوپ چهر

یکی کودک آمد چو تابنده مهر

ررا موبدش نام شاپور کرد	
بدان شادمانی یکی سور کرد	
تسو گفتسی همسه فسرهٔ ایسزدیست	
برر سایه و رایت بخردیست	
چهل روزه شد رود و می خواس <i>تند</i>	
یکی تخت شاهی بیاراستند	
بىرفىتىنى گىردان زرين كىمـــر	
بیاریختند از برش تاج زر	
چرن آن خردرا سیــر دادند شیـر	
نوشتندش اندر میان حریر	
2. (a) Explain the allusion in the 5th verse of 1 (a).	4
in اسپ باد _{and} شکره آصفی in و (b) What do you understand by	4
3. (a) Give an account of the life of either Hāfiz or Rūmī.(b) Narrate the circumstances in which EITHER Firdausī wrote	10 10
he Shāhnāma or Rūmī composed the Masnavī. 4. Explain fully any three of the following verses:—	15
(a)	10
مطلع شمس آ اگر اسکندری	
بعد ازان هر جا رری نیکو فری	
بعد ازان هر جا روی مشرق شود	
شرقها بر مغربت عاشق شود	
ه) چون یکی مو کـژ شد از ابرری ار	
شکل ماه نو نمسود آن موی او موی او موی دو کثر چون پرده گردون بیود	
چوں همه اجزات کژ شد چوں بود (c)	
درین چس کل بیخار کس نچید آری	
ماهٔ مصطفی یا ۱ ما د	

(d)·	
چون سامری مباش که زر دید و از خری	
موسی بهشت و از بی گوساله مهروه	
5. (a) Give in your own words the story of	10
رنیس راه عیسی و زنده کردن استخوانها Either	
or رنیسی شاپدور بطریسی بازارگانی بدرم (b) Write short notes on any fire of the following—	1.0
 آتش موسی ـ حس بصری - جام جم ـ روضهٔ دار السلام 	
اصحاب کهف - حسام الدین - شاپور اردشیـر	
(c) Give the opposite numbers of—	5
اصعاب ۔ شروح ۔ مُلک ۔ دولت ۔ مطلع	
6. Develop the idea contained in :-	8
آسایش دو گیتی تفسیر این در حونست	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Α.

24

1. Translate into English:-

در ایام استیالی تسلط حجاج - که تنور ظامش از خاشاک بیرحمی و شقارت بر می افروخت، و از آفت سموم جانگداز شرارت ذات نا مسعودش خشک و تر مزرعهٔ حیات خاص و عام میسوخب - روزی از روزها که زورق عافیت حال جمعی از ذکور و اناث قبیلهٔ از قبائل مسلمان و الطمهٔ بعر غضبش مشتغرق گرداب عتاب و خطاب ساخته بود چند طفل بنظر بی سعادتش در آوردند - آن ناپاک باشارهٔ مفتی جور سیان وا طلب

کرده حکم بر قتل مغیسر ر کبیس داد مطفلی با کمال مغسر سن از میبان آن قوم برخاست ر برفراز بلندی شتانی ر گفت - ایها الامیر - اگر بیچارهٔ استعای عرض مطلبی داشته باشد آیا بدستیاری غور رسیهای رای عالم آرای خدارندی بدرجهٔ اجابت رسد یا نه *

حسین چون در روسیه تربیت شده - در مدارس روس خوانده - میان ملت روس نشر و نما یافته - روسیه را مداحی مینمود - طول ر عرض ممالک روسیه را بیان میکرد - که در یکطرف مملکت آفتاب طلوع میکند در طرف دیگر ظهر است - درین مملکت رسیعه رود خانه های کشتی رو - صعاری مسطح - صد و سی ملیون تبعهٔ کار کن - بیشه های هزار فرسغی - هشتاه خروار طلائی ماصل یکساله معادن - سنگهای قیمتی ر نقره و پلاتین و سرب و زیبق و زغال سنگ بی حد و حساب است - مسرب و زیبق و زغال سنگ بی حد و حساب است - مرسیه را با کمال فصاحت تشریم مینمود - در آئنده و روسیه را مالک کل آسیا و از استامبول تا پکن تابع فرمان آنده ولت می شدرد - و در این باب ایراد ادله های قدیم خارج از موضوع و حیز انتفاع مینمود - حسین ناطق غریبی است *

2. (a) What is the significance and name of the in each of the following?—

تنور ظلمش ـ مستغرق كرداب - زغال سنگ - تابع فرمان (b) Analyse the following into their component parts, giving

(b) Analyse the following into their component parts, giving the meaning of each part:—

گنجور - گرداب - آفتاب - خروار

- (c) Write a grammatical note on (a) and mention any other similar words that you may remember.
- (d) What part of speech is میان in از میان انقوم and 4

50

Explain as fully as you can any one of the following:-(a) قصر هستی بی رجودش بود پست از طفیلش هست شد هر چیز هست تبا نهال هستی ذاتش نبرست کانے ایسمان را نشد ارکان درست کردگی هوشمند یاک گهر * حیف باشد که تربیت نشود کر نتابد بسینه پرتو علم * مهبط فیض معرفت نشود 4. (a) Write notes on any four of the following :— - مشهد مقد س - دار المرز - قنز لباشیه - راح ، عهد امهات سفلی ۔ ابای علوی - احرام (b) Give the substance of the first dream of 8 (c) Mention some of the peculiar Islamic beliefs ascribed by to Zoroastrianism. . كلام صوزون مقفى is defined as شعبر 5. (a) أ Explain the 8 as fully as you can. مقفى and موزون (b) Define any four of the following terms and give examples 12 - غرب - حشو - مزاحف - رتد مفررق - فاصله کبری مدر - عروض - ابتدا (c) Scan the following and name the metre:-6 دام دلی اما چه دل گونه حرمان در بغل

THIRD PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any two of the following extracts:--

A.

نیلبان گفت من بشما میگویم دغدغه ر تشریش بغاطر خویش راه ساهید امیدوارم در ظرف این چهل و هشت ساعت مامنی امن تر از اینجا برای شما بجریم - نیلبان رفت ر روز باختتام رسید با نهایت اضطراب بال ر انقلاب حال داخل شب شدیم - بر خلاف عادت طبیعیه شب که بایستی آرامی و امنیت خاطری بیاررد بر پریشانی ر تزلزل بیفزرد - دخترم از صبح تا بعال مثل قالب بیررج بهیچوجه متکلم نشد - شرهرم اتصالاً راه میرفت چنین تصور می نمود که حرکت و راه رفتن چنانکه معروف است در همه اوقات اشتها می آررد شاید در وقت غلبهٔ بدبختی ر هجوم هموم بر خلاف سایر حالات در مزاج ار سد جرع نماید - اما من اینقدرها فیلسوف نبودم - معده ام تهی و کله ام از هر نوع تفکر خالی بود - گاهی دراز میکشیدم که بلکه غوابم برده گرسنگی را فراموش کذم ر گاهی برد می نشد می نشده می نشال ر سودای پسرم بسرم می افتاد که چه بار روی داده *

 \mathbf{B} .

در آغاز انتشار اسلام احکام ر قوانیس دینی بیستر مراعات ر اجرا میشد ر زهد و تقوی ر عدل ر مکارم اخلاق در همه اعمال ر افکار نفرذ ر جریان داشت - اگرچه حضرت رسول صلعم هر دو جنبهٔ نبرت ر سیاست را دارا بود یعنی هم شارع ر هم قاید قوم بود ر امرر لشکری و قشون کشی و جنگها را خود بنفسه اداره میکرد رلی خلفای از فقط بامور خلافت اکتفا میکردند ر اعمال ادای و سیاسی و جنگی را به اعمال و سرداران مغرل میسداشتند چونکه بجهت وسعت ممالک مفتوحه و کثرت امور دینی وقت کافی برای اشتغال با همهٔ امور کشوری و لشکری نداشتند لیکن بارجود با همهٔ امور کشوری و لشکری نداشتند لیکن بارجود

این از مراقبت و تفتیش اعمال حکام و عمال و قضات و غیره آنی غفلت نمیکردند و هرکس بر خلاف عدل و دیانت کاری میکرد بمجازات سخت میرسانیدند و خود تصدی امور خلافت را فقط یک تکلیف دینی میدانستند نه یک رسیلهٔ تسلط و جبروت *

C.

ای شده نطق از برای شکر نو گویا پای طلب در طریق فکس تو پیویا گشتسه ز مرآت قدرت تو نسایان

این همه نقش بدیع و صورت ا**شیا** یافت **ز مه**سر تـو صبـم عـارض روشن

همتچو که رخسار شام جعد مطرا

گرنه ز دریای قدرت تو روانست

أب چسان أررد نتائج ديبا

ه ر بر صنع تو چشم عقل بتعقیق

پرتر خورشیسه هست حیرت حربا

ممکن ر از واجبش خبر بچه دانش

از همه هيچ آورد سخن بچه يارا

ذات تو میخواست جلوهٔ بنساید

کرد ز خاک آشکار آدم و حوا

گرفه غرض طرح عشق بود ز ایجاد

هیسات صورت ن<mark>مینگرفت ههسولا</mark>

2. Translate into Persian:-

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Α.

The general custom of the Arabs at meals is to place in their sitting-room a tray upon which the food is arranged. Around this they all sit together, and begin to eat, using wooden or metal spoons for their stews and soups, but the most common mode is to double up bits of

bread, and dip them into the dish. The rich use silver spoons, but they have neither knives nor forks, nor do they know how to use them. As their meat is either cut up into stews, or cooked until it is ready to fall to pieces, knives and forks are useless. When they have chickens, they tear them in pieces with their fingers. Such a practice would be considered coarse and vulgar in the West, but in the East it is otherwise. Whenever an attempt to ape Western manners has been made, it has generally proved a miserable failure. It is, therefore, better to let them retain their own custom.

B.

The loss of life and property in these pilgrimages was very great. The people generally travelled on foot, not so much from poverty, but because the pains and fatigues and dangers of such a mode of travelling were considered meritorious, and likely to propitiate the deity. There were then in India no conveniences for travelling beyond, here and there, the bare walls of some serais, set up in times long gone, by some Musalman rulers, and guarded by a gate which was always shut and barred at night. Such accommodation could generally be procured for the sum of two pice. Everyone carried with him his own mat, and his own brass vessels for drinking and washing, which, though they were neither numerous nor heavy, yet formed a considerable burden for a pedestrian.

FRENCH

(Pass and Honours.)

Paper-Setters—

{ Rev. Fr. E. Populaire, S.J.
... Fr. Scheperes, S.J.
,, Fr. P. Turmes, S.J.
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Examiners— { REV. Fr. VERBOCK HAVEN, S.J. , Fr. E. POPULAIRE, S.J.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1. Translate into English any two of the following extracts :-
 - (a) S'immoler pour son non et pour son héritage,
 D'un enfant' d'Israël voilà le vrai partage:
 Trop heureuse pour lui de hasarder vos jours!
 Et quel besoin son bras a-t-il de nos secours?
 Que peuvent contre lui tous les rois de la terre:
 En vain ils Suniraient pour lui faire la guerre:
 Pour dessiper leur ligue il n'a qu'à se montrer;
 It parle, et daus la poudre il les fait tous rentrer.
 Au seul son de sa voix la mer fuit, le ciel tremble;
 Il voit comme um néant tout l'univers ensemble:
 Et les faibles mortels, vains jouets du trépas.
 Sont tous devant ses yeux comme s'ils n'étaientpas.
 - 4h) Pour moi que tue reticus parmi ces infidèles. Je sais combicu je hais leurs fêtes criminelles, Et que mets au raug des profanations Leur table, leurs festins et leurs libations; Que même cette pompe ou je suis condamnée.

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Ce bandeau dont il faut que je paraisse ornée
Dans ces jours soleunels à l'orqueil dédiés,
Seule et daus le secret, je le foule à mes pieds;
Qu'à ces vains ornements je préfère la cendre,
Et n'ai de goût qu'aux pleurs que tu me vois répandre.
J'attendais le moment marqué daus ton arrit.,
Pour oser de ton peuple embrasser l'interêt ce moment est venu.

- (c) Je ne trouve qu'en vous je ne sais quelle grâce
 Qui me chorme toujours et jamais ne me lasse.
 De l'aimable vertu doux et puissants attraits!
 Tout respire en Esthar l'innocence et la paix.
 Du chagrin le plus noir elle écrate les ombres.
 Et fait des jours sereins de mes jours les plus sombres;
 Que dis-je? Sur ce trôna as-ès auprès de vous.
 Des astres ennemis l'en crains moins le couroux,
 Et crois que votre front prête à mon diadème
 Un éclat qui le rend respectable aux dieux mêmes.
- 2. Indicate the place of "Esther" in the evolution of Racine's dramatic art and of his spiritual life.

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3. What was the occasion of the composition of "Esther"? Does the drama bear any trace of it?

Or. How far does "Esther" satisfy the criteria of a perfect tragedy?

- 4. Give a sketch of the character of Aman or of Mardochée.
- 5. What is the significance of the rôle of the choir in "Esther"?
- 6. How would you render into idiomatic English:—

 pour comble de gloire; le ciel, qui pour moi fit pencher la balance; le
 cri de son peuple est monté jusqu'a lui; j'irai a sa rencontre; elle y faisail
- la pluie et le beau temps.7. Comment grammatically on the use of the words in italics in the following:
 - (a) Je voudrais qu'un seigneur éminent quidât son coursier.
 - (b) Quelle voix salutaire ordonne que je vive?
 - (c) Ce sont des monstres furieux.
 - (d) Le fer ne counsitra ni le sexe ni l'âge.
 - 8. Translate into English any two of the following extracts: 30
 - (a) Si j'étais la feuille que roule L'aile tournoyante du vent Qui flotte sur l'eau qui s'écoule, Et quon suit de l'oeil en rêvant;

Je me livrerais, verte encore, De la branche me détachant, Au zéphyr qui souffle à l'aurore, Au ruisseau qui vient du conchant.

Plus loin que le fleure qui gronde, Plus loin que les vastes forêts, Plus loin que la gorge profende, Je fuirais, je courais, j'irais!

(b) Le piano que baise une main frêle

Luit dans le soir rose et gris vaguement,

Taudis qu'avec un très lèger bruit d'aile

Un air bien vieux, bien faible et bien charmaut
Rôde indiscret, épeuré quasiment.

Par le boudoir longtemps parfumé d'Elle.

Qu'est-ce que c'est que ce berceau soudain

Qui lentement dorlote man pauvre être?

Que veudrais-tu de moi, deux chant badin?

Qu'as-tu voulu, fin refrain incertain Qui va tantôn mourir vers la fenêtre Ouverte un peu sur le petit jardin?

(c) Je suis comme le temps, ma fre est faite avec
La matière du monde;
Je fus avant l'immense Egypte, avant les Grees.
Aux premiers jours l'onde;
J'ai dû naître sur l'eau, dans un matin puissant,
Sous la beisante écume,

Quand l'univers était un volcan plein d'euceus, Un mal szur qui fume.

Je crois me souvenir de ce matin où vint Sur mes !ievres mouillées Le poser & jamais le lyrisure divin Aux ailes éployées!

SECOND PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- 1 Translate into English any two of the following extracts:--
- (a) Louis XI avait fait beaucoup de bien a la Guyenne etaux Gorscons. Il se fiait en eux, beaucoup trop. Dans son premier voyage du Midi, iln'avait voulu confier sa personne qu'à une garde pasconne. Ilavait en quinzeans pour compognon et confident le bâtord d'Armagnac; il luiavait de nne le comminges, tant dispute entre armagnoe et Foix, de plus les deux grands gouvernements de Guyeun et de Dauphiné, nos frontiè es des Pyrénées et des alpes. Il avait, dès son avènement, signe au comte d'armagnac une grâce de lous ses crimes, quielle-même etait un crime; il avait, sans sauci du droit ni de dieu, accorde abolition complete a cet Bomme effroyable, condamne pour meustre et pous tour. Et an boub ol'un an le brigond meltait les anglais dans ses places, si le roi n'en eut pris les clefs.
- (b) On contait qu'il avait commencé sa fortune d'une nauiére singulière. Quand le vieux due devint chauve, et que beaucoup de gens se faisaient tondre pour lui faire plaisir, il y eut pourtant des recalcitrants qui lenaient a leur chevelure. Hagenbrels s'établit, ciseoux en moir, aux portes de l'hotel, et lorsqu, ils arrivaient, il les faisait un ndre sans pitié.—Voi'a l'honme qu'il fallant at duc, un homme prêt a tout, qui ne vit d'obstacle à rien;—et non plus un comines qui aurait mentié à chaque instant le difficile et l'impossible. Hager lach, arrivant en alsace, dans un pays mal règle, plein de choses flottantes qu'il fallait peu a pen ordonner, trouva le vrai moyen de desesperer toul le monde; ce fut de mettre partout et tout d'abord ce qu'il appelait l'ordre, la règle et le droit.
- (c) Il y a des gens a qui la faveur arrive comme un accident; ils en sont les premiers surpris et consternes; ils se reconnaissent enfin et se trouvent dignes de leur étoile; et comme si la stupidité et la fortune étaint deux choses incompatibles, on qu'il fut impossible d'êtra heureux et sot tout à la fois, ils se croient de l'esprit ils hasordent, que dis-je! Ils ont la confiance de parler en toute rencontre et sur quelque matière qui puisse s'offrir, et sous nul discernement, despersonnes qui les e'coutent ajonterai-je qu'ils epouvantent on qu'ils donnent le dernier dégoût par leur fatuité et par leurs fadaises? Il est vrai du moins qu'ils dishonorent sous ressource ceux qui ont quelque part an hasard de leur elevation

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2. (a) What do you know about Theophraste?

Compare his way of treating the 'Correlaves' with that of La

Compare his way of treating the 'Coracleves' with that of La Bruyere.

- (b) 'Michelett is the most remarkable historian that France has produced; indeed, for originality and interest, there are few historians of any age or time to surpass him.' Discuss this opinion.
- 3, (a) Give the rule for the agreement of the past participle followed by an infinitive. Translate: I saw her running; I saw her applauded.

(b) What is the order in French of the pronouns governed by the verb? Give examples.

4. (a) Give sentences to show the une of: de sorte que, afin que, a moins que, pendant que.

(b) Translate: voils un homme comme il fauob voils'l'homme qu'il faut.

5. Translate into English :-

- (a) Bôentit ce ne fut plus une bataille; les Francais etaient dispersés par petites troupes et se difendaient avec un incryable courage. Il yeut parmi ce disastre les plus robles faits d'armes; le duc d'Alençou se distingua entre tous. Il se mit avec dix huit chevaliers de la bannière du Seigneur de Croy, qui avaient fait serment de pénétre r jusqu'au voi d'Ar gleterre et d'abattre sa couronne. Ils perèirent les rangs des anglais, et enfin le duc d'Alençou parvint presque seul au lieu ou combattait le roi; il abattit le duc d'York; le roi s'avança pour secourir
- partie de sa couronne. Leroi se releva et se mit vaillamment en defense.

 (b) L'hirondelle s'est, sons facon, emparée de nos demeuses; elle loge sour nos fenêtres, sous nos toits, dans nos cheminées. Elle n'a point du lout peur de nous. (In dira qu'elle se fie a'son aile incomparable; mais non: elle met aussi son nid, ses enfants, a notre porteé. Voila pourquoi elle est deven e la maitresse de la maison. Elle n'a pas pris seulement la maison, ma s'notre coeur. Dans un logis de campagie ou mon beau-père faisait l'education de ses enfants, l'été, il leur tenait la classe dans une serre ou les hirondelles nichaient, sous s'enquieter du mouvement de la famille, libres dans leure allure, tout occupies de leur couvée, sortant par la fenêtre et rentrant par le toit, la ant ave les leurs bres hant et plus hant que le maître, lui faisant due commo derait Saint Francois: "Soeurs hironde les, ne pourriez vous veus taire?"

son oncle. Alors le duc d'Alencon le frappa de sa l'ache, et fit sauter une

THIRD HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

A. COMPOSITION

- 1. Translate into classical French any two of the following 50 passages:-
- (a) I would say a few words, by the way, upon the question of preeminence between the charming arts of painting and music. I would cast
 my grain into the balance were it but a grain of sand, a mere atom. It
 is urged in favour of the painter that he leaves his works behind him,
 that his works outlive him and immortable his memory. In reply to this
 we are reminded that musical composers also leave us their operas and
 oratorios. But music is subject to fashion and pairting is not. The
 musical passages that deeply affected our forefathers seem simply ridiculous
 to the amateurs of our own day, whilst Haphae'ls pictures will enchant our
 descendants as greatly as they did our ancestors. This is my grain of sand.

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- (b) When I would visit a scene full of enthusiasm, and put forth all the strength of my imagination, I cling boldly to the flowing robe of the sublime blind poet of Albion at the moment when he soars heavenward, and dares approach the throne of the Eternal. What muse was able to sustain him in a flight so lofty that no man before him ever ventured to raise his eyes as high? From heaven's dazzling pavement, with envious eyes, I pass horror stricken to the vast caverns of Satan's sojourn. I take my place at the infernal council, mingle with the hosts of rebellious spirits, and listen to their discourse.
 - (c) River that in silence windest
 Through the meadows, bright and free,
 Till at length thy rest thou findest
 In the bosom of the sea.

 Four long years of mingled feeling,
 Half in test and half in strife.
 I have seen the waters stealing
 Onward like the stream of life.
 Thou hast taught me silent River.

Thou hast taught me silent River,
Many a lesson deep and long;
Thou hast been a generous giver,
I can give thee but a song.

B. GRAMMAR

You are to attempt three questions only.

2. When is 'ne' used expletively in subordinate clauses? Give

examples.

3. Give the French for five of the following expressions:—Is honour at stake? He is quite exhausted. I can stand it no longer. What grieves me most is your impertinence. I know no one who is truly happy. Tell me. I shall not tell you. The more we have, the more we

want. Do not touch it, leave it as it is.
4. Illustrate by examples the difference in meaning between the

French Imperfect and the Past Definite.

5. In which cases does the Past Participle take the sign of gender and number?

C. HISTORY

Two questions only are to be answered.

6. Give an idea of the Mediaeval Culture in the days of St. Louis.

7. The reign of Napoleon III.

8 Who and what are the follwing: Mirabeau, the Edict of Nantes. Malplaquet, Richelieu. Thiers?

9. The vicissitudes of French Colonial Expansion.

FOURTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into English any three of the following extracts:

(a) Bien qu'on soit deux moities de la societe, Ces deux moities pourtant n'ont point d'egalité : L'une est moitie suprême, et l'autre subaltere; L'une en tout est soumise à l'autre, qui gonverne; Et ce que le soldat, dans son devoir instruit, Montre d'obeissance au chef qui le conduit, Le valet à son maître, un enfant à son père, A son superieur le moindre petit frère, N'approche point encor de la docileté, Et de l'obeissance, et de l'humilité, Et du profond respect où la femme doit être Pour son mari, son chef, son seigneur et son maître. Lossqu'il jette sur elle un regard serieux Son devoir aussitôt est de baisser les yeux, Et de n'oser jamais le regarder en face Que quand d'un deux regard il lui veut faire grace.

- (b) En sage philosophe on m'a vu vingt aunées, Contempler des maris les tristes destinées, Et m'instruire avec soin de tous les accidents Qui font dans le malheur tomber les plus prudents; Des disgraces d'autrui profitant dans mon ame, J'ai cherche les moyens, voulant prendre une semme De peuvoir garantir mon front de tous affronts, Et le tirer de pair d'avec les antres fronts. Par ce noble dessain, j'ai cun mettre en pratique Tout ce que peut trouver l'humaine politique: Et, comme si du sort il etait arêté Que nul poneme ici-bas n'eu jeait exempte, Aprè l'experience et toutes les lumières, Que j'ai pu m'acquerir sur de te'les matières, Après vingt ans et plus de meditation Par me conduire en tout avec précaution. De tout d'autres maris j'aurais quitté la trace. Pour me trouver après dans le même disgrace!
- Les vous mon démon ou mon ange?

 Je ne sais, mais je suis votre esclave. Econtez.

 Allez où vous vondrez, j'irai. Restez, partez,
 Je ouis à vous. Pourquoi fais-je anisi? je l'ignore.

 J'ai besoin de vous voir et de vous voir encore

 Et de vous voir tonjours. Quand le bruit de vos pas.

 S'efface, alors je crois que mon cœ r ne leat ja a,

 Vous me manquer, je suis absente de moi-même:

 Mais des qu'enfin ce pas que j'attends et que j aime

 Vient frapper mon orcille, alors il me souvir nt

 Que je vis et je sens mon âme qui revient.
- (d) On est jaloux on est mechant, pourquoi? Parce que l'on e-t vieux. Parce que beauté, grâce, Jeunesse dans autrui, tout fait reur, tout menace, Parce que'on est jaloux des autres, et h nteux De soi. Dérision ! que cet a cour boiteux, Qui nous remet an couer tant d'ivresse et de flamme Ait oublié le corps en rajuenissant l'âme! . . . O mes tous crénelies, Mon vieux donjon ducal, que je vous donnerais, Oh! que je dounerais mes blês et mes foréts, Et les vaster troupedux qui tendent mes collines, Mon vieux nom, mon vieux titre, et toutes mes ruines, Et tous mes vieux aieux qui bientôt m'attendrant. Pour sa chaumière neuve et pour son jeune front !-Car ses cheveux sont noirs, (ar son ceil reluit comme Le tien, tu peux le voir, et dire : Ce jeune homme!
- 2. Explain : douaire préfix, communauté des biens, fou fiessé, traiter les gens de hant en bas, vieu n'est ici-bas si grand que ton néant.

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- 3. What was the Empire and how was the Emperor elected?
- 4. Comment on the artistic quality of the dénouement of "L'Ecole des Femmes."

0r

Estimate the value of "Hernani" as a romantic drama and as a poem.

- 5. In what respects does the dramatic theory of the Romantic school differ from the dramatic theory of the Classical school?
 - 6. Give a sketch of the character of Agnes.

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- "Molière's characters are types, not individuals."—How far is this true of Arnolphe and Chrysalde?
 - 7. Translate into French :-

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(a) Outside the night was calm and warm. The thin crescent of the moon setting behind the woods lit up the country round as with the clear light of a lantern. The lengthened shadows of the lofty trees threw dark bands across the meadows, while in the open spots the grass assumed the soft appearance of greenish velvet.

But Françoise paid little heed to the night's mysterious charm. She fell to studying the landscape, looking for the sentinels that the Germans must have posted on the outskirts. She could see their shadows distinctly at intervals along the Moselle. A solitary one stood opposite the mill on the other bank of the stream, near a willow whose branches dipped into the water. He was a big fellow, standing motionless, his face upturned with a shepherd's dreamy look.

(b) Ariosto tells a pretty story of a fairy, who, by some mysterious law of her nature, was condemned to appear at certain seasons in the form of a foul and poisonous snake. Those who injured her during the period of her disguise were for ever excluded from participation in the blessings which she bestowed. But, to those who, in spite of her loathsome aspect, pitied and protected her, she afterwards revealed herself in the beautiful and celestral form which was natural to her, accompanied their steps, granted all their wishes, filled their houses with wealth, made them happy in love and victorious in war. Such a spirit is Liberty. At times she takes the form of a hateful reptile. She grovels, she hisses, she stings. But wose to those who in discust el all venture to crush ler! And happy are those who, having dared to receive her in her degraded and frightful shape, shall at length be rewarded by her in the time of her beauty and glory.

FIFTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Transla e two of the following extracts:-

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(a) Les anglais, pleins de confiace de leurbeau-frere. le duc de Bourgogne, s'imaginaient le voir venir à la tête d'une grande armée. Karriva lout seul. Au moins, espéraient-ils qu'il les hébergerait, les nourrirait en route. Mais roint; sur leur chemin, il fermait ses places, les laissait coucher à la belle éteile Seu'ement, il les encourageait en leur

montrant de loin les bennes villes picardes, ou le connétable avait hâte de les recevoir. Arrivis devant saint-Luentin "ils s'attendaient qu'ou sonnât les cloches et qu'ou portât au devant la croix et l'eau bénite." Ka furent recus à coups de canon; il y ent deux ou bross hommes lués.

- (b) Yennes ilaient as suisses, ignorant lout, ayant envie de lout, gauches et maltralries, et lout réussissait. Tout sert aux jeunes. Les factions, les rivalitis intérieures, qui ruinent les vieux sages Etats, profitaient à ceux-ci. Les chevaliers des villes et les hommes des métiers faisaient piartic des mimes corporatiens et revalisaient de bravoure; le bannerat tué, la banniere se relevant aussi ferme dans la main d'un boucher, d'un tanneur. Les chefs des partis opposis n'elaient d'accord que sur une chose, alles en avant, les Diesbach pour entrainer, les Bubenberg pour s'excuser de l'amitie des Bourguignons et pour assurer leur honneur.
- (c) Les hommes out tant de peine a s'approcher sur leurs affaires, sont si e'pineux sur les moindres interêts, si perisses de difficultes, veulent si fort bromper, et si peu être trompes; mettent si lsaut ce qui leur apportent, et si bas ce qui apportient aux autres, que j'avoue que je ne sais par ou et comment se peuvent conclure les marriages, les contrats, les acquisitions, la paix, la trêve les traites, les alliances.—A quelques uns l'arrogana tient lieu de grandeur; Curchumanite de fermeté, et la fourberic, d'esprit.—Les fourbes croient aisement que les autres le sont; its ne peuvent juere être trompês, et ils ne se trompent pas longtemps. Ye ma racheberai loujours fort volontiers d'être fourbe par être stupide et passer pour tel. Un ne se trompe point en bién, la fourb rie ajoute la malice au mensouge.
- 2. (a) Give an idea of the place occupied by the reign of Louis XI 10 in the history of France.
 - (b) In your opinion, what is the impression created by Michelet 10 in his treatment of Louis XI and Charles the Bold?
 - (c) Discuss the sim of L. Bruvére in his 'Caracteres.'

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- 3. (a) What is the difference between a defective and an irregular verb? Can a verb be defective without being irregular? Give examples
 - (b) Translate:—

I see your sister coming; he has gone out; I am going out; although he says so, you must not believe him; what is the good of it?

4. Translate into French:-- 30

- (a) It was during the summer holidays which we were spending at a small village at the seaside. One morning my elder brother, who was fourteen, a cousin and my-elf started after breakfast for a long walk. We meant to go first along the coast and then return home through the woods. About midday, we saw an energous rock, or rather a small island. We could reach it dry-footed, and evidently the sea never covered it, for grass grew on the top. We sat down there to eat our lunch, and we rested some time. All at once my brother looking towards the land cried out: 'We are cut off.'
- (b) At last Fortunatus began to grow old, and his wife fell sick and died. The loss of her caused him so much grief, that soon after he fell sick too. As he thought he had not long to live, he called his two sons to his bedside, and told them the secret of the purse and cap, begging them never to make known these secrets to others. "Follow my example," said he: "I have had the purse these forty years, and no one ever knew from what source I obtained my riches." He then told them to live always together in friendship, embraced them and died.

SIXTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Translite into English two of the following passages:

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(a) D'où vient, cher Le Vayer, que l'homme le moins sage Croit toujours seul avoir la sagesse en partages Et qu'il n'est point de Fou, qui par beiles raisons Ne l.ge son voisin aus Petites maisons? Un pedant enivre de sa vaine science, Tout bérissé de grec, tout bouffi d'arroz nce, Et qui de mille auteurs retenus mot par mot Dans sa tete entasses, n'a souvent fait qu'un Sot, Croit qu'un live fait tout et q e sins Aistote La Raison ne voit goutte et le bon sens radote. D'autre part un Galant, de qui tout le met er Est de courir le your de quartier en quart er, Et d'aller à l'abri d'une perraque blonde, De ses froides deuceurs fatigues le hean monde, Condamne la science, et blamant tout écrit

Croit qu'en lui l'ignorance est un titre d'espait. Boileour

(b) Mangez un pain vivant pétri de leur exemple, Si lien que, nourris d'euse, plus calmes et plus forts, Les portant comme un dieu dont vous seriez le temple. Vous sentiez vivre en vous tous ces illustres morts. Puis, sans vous arrêter, même à us temps sumblimes, Au réicl trop étroil par votre essor rais, Toujours plus hant, toujours plus avant sur les cimes, Lancez dans l'idéal vos coeure inassouvis.

Plus hant! toujours plus hant, vers us hauteurs sereines Où nos désirs n'out pas de flux et reflux,

Ou les bruits de la torie., ou le chant des sirenes, Où les doutes railleurs ne nous parviennent plus! Plus haut dans le mépris des faux biens gu'on adore. Plus haut dans ces combats dont le ciel est l'enjeu,

Plus haut dans vos amours. Montez, montez encore Sur cette échelle d'or qui va se perdre en Dieu. Victor De Laprade

(c) Si tu veux que la société répande sur ton âme plus de plaisirs cu de consolations que de chagrins ou d'amertumes sois indulgente! Et préserve toi de la "personnalité" comme d'un poison qui en corrompt toutes les douceurs. La "personnalite" dont je voudrais te préserver n'est pas cette disposition constante á nous occuper sans distraction, sans relache, de nos intérêts personnels, a leur sacrifier les intérêts, les droits, le botheur des autres. Cet égoisme est incompatible avec toute espece de vertu et même de sentiment honnête Je parle de cette personnalité qui, dans les détails de la vie, nous fait tout rapporter aux intérêts de notre santé, de notre commodité, de nos gouts, de notre bien être qui nous tient en quelque sorte toujours en présence de nous mêmes, qui se nourrit des petits sacrifices qu'elle impose aux autres sans en sentir l'injustice et presque sans le savoir, qui trouve tont naturel et juste tout ce qui lui convient, injuste et bizarre tout ce qui la blesse; qui crie au caprice et à la tyrannie si un autro, en la ménageant, s'occupe un pen de lui même.

B. LITERATURE

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Answer any two questions.

Write short notes on any four of the following: Saint Simon; Les Précienses Ridicules; Athalie; Le Cid; L' Aigle de Meaux; Les Pensées; Diderot.

3. Estimate the merits of La Fontaine as a poet and as a moralist.

4. Comment on the folking appreciation: "That was an age in which the world, in all the plenitude of its brilliance had come into its own; when the sobure spirituality of the Middle Ages had been at last forgotten; when the literatures of Greece and Rome had delivered their benignant message; when civilisation could enjoy for a space its new maturity, before a larger vision has brought questionings, and an inward vision-aspirations unknown lefo e."

How did J. J. Rous-eau and Chateaubriand, each in his own way,

prepare the Romantic Movement?

C. PHILOLOGY

Answer any 'wo questions.

6. Trace the origin of the four Conugations and account for the Future Present.

7 Does the tonic accent of a Latin word influence the alterations the

word undergoes and in what sense?

8. Give the origin of four of the following words: -fourooyer; avenir;

dorénavent; trop; écele; bonnement; hôtel-Dieu.

9. What are Doublets? Illustrate their formation by concrete examples.

FRENCH

Examiners— { REV. FR. VERBOCK HAVEN, S.J. , FR. E. POPULAIRE, S.J. MR. NAGENDRANATH CHANDRA, M.A.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate three of the following extracts:-

(a) Déplorable Sion, qu'as-tu fait de ta gloire? Tout l'univers admirait ta splendeur: Tu n'es plus que poussière; et de cette grandeur Il ne nous reste plus que la triste mémoire. Sion, jusques au ciel élevée autrefois, Jusqu'aux enfers maintenant abaissée, Puissé-je demeurer sans voix, Si dans mes chants ta douleur retracée

Jusqu'au dernier soupir n'occupe ma pensée!

(b) Quoi! Lorsque vous voyez périr votre patrie,
Pour quelque chose, Esther, vous comptez votre vie!
Dieu parle, et d'un mortel vous craignez le courroux.
Que dis-je? Votre vie, Esther, est-elle à vous?
N'est-elle pas au sang dont vous êtes issue?
N'est-elle pas à Dieu dont vous l'avez reçue?
Et qui sait, lorsqu'au trône il conduisit vos pas,
Si pour sauver son peuple il ne vous gardait pas?
Songez-y bien: ce Dieu ne vous a point choisie
Pour être un vain spectacle aux peuples de l'Asie.

(c) Croyez-moi, chère Esther, ce sceptre, cet empire, Et ces profonds respects que la terreur inspire. A leur pompeux éclat mêlent peu de douceur, Et fatiguent souvent leur triste possesseur.

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Je ne trouve qu'en vous je ne sais quelle grâce Qui me charme toujours et jamais ne me lasse. De l'aimable vertu doux et puissants attraits. Tout respire en Esther l'innocence et la paix. Du chagrin le plus noir elle écarte les ombres, Et fait des jours sereins de mes jours les plus sombres.

- (d) Seigneur, nous sommes seuls. Que sert de se flatter?
 Ce zèle que pour lui vous fites éclater,
 Ce soin d'immoler tout à son pouvoir suprême,
 Entre nous, avaient-ils d'autre objet que vous-même?
 Et, sans chercher plus loin, tous ces Juifs désolés,
 N'est-ce pas à vous seul que vous les immolez?
 Et ne craignez-vous point que quelque avis funeste.....
 Enfin la cour nous hait, le peuple nous déteste,
 Ce Juif même, il le faut confesser malgré moi,
 Ce Juif, comblé d'honneurs, me cause quelque effroi.
- 2. Write a short account of Racine. What are his great merits as a poet? Illustrate your answer by quotations or examples taken from Esther.
- 3. Write a brief sketch of two of the following characters:— 12 Aman, Assuérus, Eather, and Mardochée.
- 4. (a) Give the principal parts (temps primitifs) of—perr, craignez, dis, reque, and sait.
- (b) What is meant by a defective verb? Give an example.

 (c) Give synonyms for—respects, terreur, éclat, innocence, and paix.
- 5. (a) Account for the agreement of the following participles: fait 1 (a): élevée 1 (a); reçue 1 (b).
 - (b) Give the comparative and superlative of bon and mauvais.
 - (c) Give the feminine for—Juif, empereur, and dieux.
 - 6. Translate one of the following passages:-
 - (a) Tout entier aux projects pieux qu'il a conçus,
 Le saint prêtre est toujours en course et se prodigue,
 Et revient tous les soirs épuisé de fatigue;
 De l'ancien précepteur des enfants de Gondi
 Le zèle ne s'est pas un instant refroidi;
 Quand il a visité la mansarde indigente,
 Il va demander l'aumône à la Regente,
 Il sollicite, il prie, il insiste, emporté
 Par son infatigable et forte charité,
 Recevant de la gauche et donnant de la droite,
 Pourtant il est malade et vieux et son pied boite;
 Car. afin d'obtenir la grâce qu'il voulait,
 Il a trainé six mois la chaine et le boulet
 D'un forcat innocent, dont il a pris la place.
 - (b) 'Trois jours', leur dit Colombe, 'et je vous donne un monde!'
 Et son doigt le montrait, et son œil, pour le voir,
 Perçait de l'horizon l'immensité profonde,
 Il marche, et des trois jours le premier jour à lui:
 Il marche, et l'horizon recule devant lui
 Il marche, et le jour baisse; avec l'azur de l'onde
 L'azur d'un ciel sans borne à ses yeux se confond;
 Il marche, il marche encore, et toujours; et la sonde
 Plonge et replonge en vain dans une mer sans fond.
 Le pilote en silence, appuyé tristement
 Sur la barre qui crie au milieu des ténèbres,

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Ecoute du roulis le sourd mugissement, Et des mats fatigués les craquements funèbres. Les astres de l'Europe ont disparu des cieux; L'ardente Croix du Sud épouvante ses yeux.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate two of the following extracts:-

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- (a) L'on n'écrit que pour être entendu; mais il faut du moins, en écrivant, faire entendre de belles choses. L'on doit aveir une diction pure, et user de termes qui soient propres, il est vrai; mais îl fant que ces termes si propres expriment des pensées nobles, vives, solides, et qui renferment un très beau sens. C'est faire de la pureté et de la clarté du discours un mauvais usage que de les faire servir à une matière arnde, infructueuse, qui est sans sel, sans utilité, sans nouveauté. Que sert aux lecteurs de comprendre aisément et sans peine des choses frivoles et puériles, quelquefois fades et communes, et d'etre moins incertains de la pensée d'un auteur qu'ennuyés de son ouvrage!
- (b) On ne pourrait se défendre de quelque joie à voir périr un méchant homme; l'on jouirait alors du fruit de sa haine, et l'on tirerait de lui tout ce qu'on en peut espérer, qui est le plaisir de sa perte. Sa mort enfin arrive, mais dans une conjoncture où nos intérêts ne nous permettent pas de nous en réjouir : il meurt trop tôt ou trop tard.—Il est pénible à un homme fier de pardonner a celui qui le surprend en faute et qui se plaint de lui avec raison; so fierté ne s'adoucit que lorsqu'il reprend ses advantages, et qu'il met l'autre dans son tort.—Comme nous nous affectionnous de plus en plus aux personnes à qui nous faisons du bien, de même nous haissons violemment ceux que nous avons beaucoup offensés.
- (c) Le caractère de celui qui veut hér'ter de quel-qu'un rentre dans celui du complaisant; nous né sommes point mieux flattés, mieux obéis, plus suivis, plus entourés, plus cultivés, plus ménagés, plus caressés de personne pendant notre vie, que de celui qui croit gagner à notre mort et qui désire qu'elle arrive. Tous les homnes, par les postes différents, par les titres et par les successions, se regardent comme héritiers les uns des autres, et cultivent par cet intérêt, pendant tout le cours de leur vie, un désir secret et enveloppé de la mort d'autrui : le plus heureux dans chaque condition est celui qui a plus de choses à perdre par sa mort et à laisser a son successeur.
- 2. (a) Is La Bruyère more remarkable as a moralist or as an artist? Explain.
- (b) What were the reasons for the success of his book?
 (c) Show how the circumstances in which he was placed favoured him in the task of writing it.
- 3. (a) In what way do the French avoid the use of the passive? Give examples.
 - (b) Show the mistakes in the following: -
 - (i) Elle s'est cassée sa jambe.
 - (ii) Ces enfants nous out obéis.

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- (iii) Je le vois venant.
 (iv) Allez et cherchez pour mon ardoise.
 (v) C'est moi qui vous le dit.
- (c) What construction follows the verbs—craindre, ne pas douter, empêcher? Give examples.

(d) Translate:—I am cold; my teeth ache; this is cheap; mind your own business; from day to day.

4. Translate :---

(a) l'étrarque a planté un laurier sur ce tombeau, et l'étrarque n'est plus, et le laurier se meurt. Les étrangers qui sont venus en foule honorer la mémoire de Virgile, ont écrit leurs noiss sur les murs qui environment l'urne. On est importuné par ces noms obscurs qui semblent là seulement pour troubler la paisible idée de soli-tude que ce séjour fait naître. Il n'y a que Pétrarque qui fût digne de laisser une trace durable de son voyage au tombeau de Virgile. On redescend en silence de cet asile funéraire de la gloire; on se rappelle et les pensées et les images que le talent du poète a consacrées pour toujours. Admirable entretien avec les races futures, entretien que l'art d'écrire perpétue et renouvelle!

(b) Vous n'avez jamais vu d'homme si heureux que le sergent Hornus les jours de bataille, lorsqu'il tenait sa hampe à deux mains, bien affermie dans son êtui de cuir. Il ne parlait pas, il ne bougeait pas. Sérieux comme un prêtre, on aurait dit qu'il tenait, quelque chose de sacré. Toute sa vie, toute sa force, était dans ses doigts crispés autour de ce beau haillon doré sur lequel se ruaient les balles, et dans ses yeux plems de défi qui regardaient les Prussiens bien en face, d'un air de dire : 'Essayez done de venir me la prendre Personne ne l'essaya, pas même la mort. Après Borny, après Gravelotte, les batailles les plus meurtrières, le drapeau s'en allait de partout, haché, troué, transparent de blessures; mais c'était toujours le vieil Hornus qui le portait.

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer the questions marked with an asterisk, and any THREE of the remainder.

*1. Translate into French two of the following passages:

(a) A peasant found one day a snake quite benumbed and half dead with cold. Touched with compassion, he carried it to his dwelling and stretched it out near the fire to warm it. Hardly did the benumbed animal begin to revive when it only thought of wounding him who had saved its life. 'Ungrateful one,' said the peasant full of rightful anger, 'thy wicked heart deserves another treatment.' Saying these words, he took his axe and cut the snake to pieces.

(b) The epithet so often heard, and in such kindly tones of poor Goldsmith,' speaks volumes. 'Let not his frailties be remembered,' said Johnson, 'he was a very great man.' But, for our own part, we rather say, 'Let them be remembered,' since their tendency is to endear; and we question whether he himself would not feel gratified in hearing his reader close the volume with the kind-hearted phrase, so fondly and so familiarly ejaculated, of 'Poor Goldsmith.'

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(c) Two thieves having stolen a mule had driven it into a	29
forest. There they consulted about the price which they were to ask	
for it, and about the share which should fall to the lot of each. But	
a quarrel arose between them, and they soon came to blows. In the	
thick of the quarrel, a third thief quietly stole near to them, mounted	
on the mule, and made off without being seen. They did not become	
aware of it until the beast was already too far off to be caught again.	
A good application of the proverb—'Lightly come, lightly go.'	
*2. Give an idiomatic rendering of any four of the following:-	12
(a) There you are.	
(b) The train has just left.	
(c) I speak to you as a friend.	
(d) He had a broad chest and high shoulders.	
(e) I must go away.	
(f) It is fair that you should compensate him.	
3. Give the Sequence of Tenses in French.	8
4. Illustrate the various meanings and constructions of any four	8
of the following verbs:—convenir, tenir, sortir, servir, user, descendre.	
*5. Give a brief account of France during the thirteenth century.	14
6. How was the Renaissance brought about in France, and what	g
influence did it exercise on French culture?	
7. Give a brief account of the career of Napoleon I.	8

LATIN

8. Sketch the relations between France and Germany from 1870

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate :--

to our own time.

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(a) Tum sic Hyrtacides: 'audite o mentibus aequis, Aeneadae, neve haec nostris spectentur ab annis, quae ferimus. Rutuli somno vinoque soluti conticuere; locum insidiis conspeximus ipsi, qui patet in bivio portae, quae proxima ponto: interrupti ignes, aterque ad sidera fumus erigitur; si fortuna permittitis uti quaesitum Aenean et moenia Pallantea, mox hic cum spoliis ingenti caede peracta adfore cernetis. nec nos via fallet euntis; vidimus obscuris primam sub vallibus urbem venatu adsiduo et totum cognovimus amnem.'

- (b) Nec longum in medio tempus, cum clamor, ad auris pervenit ac videt Euryalum, quem iam manus omnis fraude loci et noctis, subito turbante tumultu, oppressum rapit et conantem plurima frustra, quid faciat? qua vi iuvenem, quibus audeat armis eripere? an sese medios moriturus in ensis inferat et pulchram properet per volnera mortem?
- (c) Talibus orabat Iuno, cunctique fremebant caelicolae adsensu vario: ceu flamina prima cum deprensa fremunt silvis, et caeca volutant murmura, venturos nautis prodentia ventos, tum pater omnipotens, rerum cui summa potestas, infit: eo dicente deum domus alta silescit, et tremefacta solo tellus; silet arduus aether; tum Zephyri posuere; premit placida aequora pontus.
- (d) Sir ruit in densos alacer, Mezentius hostis, sternitur infelix Acron, et calcibus atram tundit humum exspirans, infractaque tela cruentat. atque idem fugientem haud est dignatus Oroden sternere, nec iacta caecum dare cuspide volnus: obvius adversoque occurrit, seque viro vir contulit, haud furto melior, sed fortibus armis. tum super abiectum posito pede nixus et hasta ' pars belli haud temnenda, viri, iacet altus Orodes.'
- 2. Write brief notes on :—sceptra Palatini; genetrix Berecyntia; qualis Nereia Doto et Galatea: non hic Atridae nec fandi fictor Ulixes; magna dicione iubeto Carthago premat Ausoniam: intempestae Graviscae; vix proram attigerat; rumpit Saturnia funem: Mavors; ubi hic Iuno demissave nubibus Iris?; nemorum Latonia custos.
 - 3. Either, Explain the grammatical construction of

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- (a) Turne, quod optanti divom promittere nemo auderet, volvenda dies en attulit ultro.
- (b) Sequor omina tanta, quisquis in arma vocas.
- (c) Teucrum mirantur inertia corda, non aequo dare se campo, non obvia ferre arma viros, sed castra fovere.
- (d) Mene igitur socium summis adiungere rebus. Nise, fugis?
- (e) Euryale, audendum dextra.
- (f) Nihil illi tendere contra, sed celerare fugam in silvas et fidere nocti.
- (g) En qui nostra sibi bello conubia poscunt!
- Or, Account for the various subjunctives in the extracts in Question 1, and explain the forms—quaesitum, euntis, adfore in 1 (a); the case of fraude in 1 (b); the construction of eo dicente in 1 (c).
- 4. Scan any consecutive six lines of the extracts in Question 1; 12

Haud aliter Troianae acies aciesque Latinae concurrunt, haeret pede pes, densusque viro vir. Give a brief descripion of the Virgilian hexameter.

5. Either, Tell briefly the story of Nisus and Euryalus.

Or, Mention any forms or constructions found in Virgil that would not occur in Latin prose.

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- 6. Either, What in your opinion are Virgil's chief merits as a poet? Illustrate if you can from Aeneid IX and X.
- Or, What is the place of the Aeneid in the development of Latin poetry?
 - 7. Translate:-

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- (a) Nox erat, et placidum carpebant fessa soporem corpora per terras, silvaeque et saeva quierant aequora, cum medio volvuntur sidera lapsu, cum tacet omnis ager, pecudes pictaeque volucres, quaeque lacus late liquidos quaeque aspera dumis rura tenent, somno positae sub nocte silenti lenibant curas et corda oblita laborum. at non infelix animi Phoenissa, neque umquam solvitur in somnos oculisve aut pectore noctem accipit: ingeminant curse, rursusque resurgens saevit amor, magnoque irarum fluctuat aestu. sic adeo insistit secumque ita corde volutat: 'en, quid ago? rursusne procos inrisa priores experiar, Nomadumque petam conubia supplex, quos ego sim totiens iam dedignata maritos?'
- (b) Beatus ille qui procul negotiis, ut prisca gens mortalium, paterna rura bodus exercet suis solutus omni facnore, neque excitatur classico miles truci. neque horret iratum mare, forumque vitat et superha civium potentiorum limina. ergo aut adulta vitium propagine altas maritat populos. aut in reducta valle mugientium prospectat errantis greges, inutilisque falce ramos amputans feliciores inserit aut pressa puris mella condit amphoris. aut tondet infirmas oves.

SECOND PASS PAPER

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.

1. Translate:-

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(a) Est enim haec, iudices, non scripta, sed nata lex: quam non didicimus, accepimus, legimus, verum ex natura ipsa arripuimus, hausimus, expregsimus, ad quam non docti, sed facti, non instituti, sed imbuti sumus, ut si vita nostra in aliquas insidias, si in vim, si in tela aut latronum aut inimicorum incidisset, omnis honesta ratio esset expediendae salutis.

(b) Si haec non gesta audiretis, sed picta videretis, tamen appareret uter esset insidiator, uter nihil cogitaret mali, cum alter veheretur in rheda penulatus, una sederet uxor. Quid horum non inspeditissimum? vestitus, an vehiculum, an comes? quid minus promptum ad pugnam, cum penula irretitus, rheda impeditus, uxore paene constrictus esset? Videte nunc illum, primum egredientem e villa subilo: cur vesperi? quid necesse est tarde? qui convenit, praesertim id temporis? Devertit in villam Pompeii. Pompeium ut videret? Sciobat in Alsiensi esse. Villam ut perspiceret? millies in ea fuerat. Quid ergo erat? mora et tergiversatio: dum hic veniret, locum relinquere noluit.

(c) Responsum legatis est neque Romanorum in se meritum esse neque Carthagimensum in:uriam ob quae aut pro Romanis aut adversus Poenos sumant arma; contra ea audire sese gentis suae homines agro finibusque Italiae pelli a populo Romano stipendiumque

pendere et caetera indigna pati.

(d) Taetra ibi luctatio crat lubrica glacie non recipiente vestigium et in prono citius pedes fallente, ut, seu manibus in adsurgendo sen genu se adiuvissent, ipsis adminiculis prolapsis iterum corruerent; nec stirpes circa radicesve, ad quas pede aut manu quisquam eniti posset, erant: ita in levi tantum glacie tabidaque nive volutabantur.

2. Explain any four of the following expressions:—annanam levare; omitto festos et actos et institutos dies; officiosi labores; praero-

gativa militaris; meis auspicis; patrum auctoritas.

3. Either, Sketch with dates the career of T. Annus Milo.

Or, State the circumstances under which Cicero had to plead for Milo. What use does he make of the Lex nata, non scripta?

4. Account for each of the subjunctives in the first sentence of 10 1 (b).

5. Give the position and modern names of the Druentia, Isara, Rhodanus, and of Saguntum. What events does Livy narrate about them?

6. Translate:-

Dum altercationibus magis quam consiliis, tempus teritur, Hannibal ex acie, quam ad multum diei tenuerat instructam, cum in castra ceteras reciperet copias, Numidas ad invadendos ex minoribus castris Romanorum aquatores trans flumen mittit. Quam inconditam turbam cum vixdum in ripam egressi clamore ac tumultu fugassent, in stationem quoque pro vallo locatam atque ipsas prope portas evecti sunt. Id vero adeo indignum visum, ut ea modo una causa, ne extemplo transirent flumen tenuerit Romanos quod summa imperii eo die penes Paulum fuerit.

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Translate into Latin:--

(a) When with infinite toil they had climbed up the greater part of that steep ascent, Balboa commanded his men to halt, and advanced alone to the summit, that he might be the first to enjoy a spectacle which he had so long desired. As soon as he beheld the South Sea stretching in endless prospect below him, he fell on his knees, and, lifting up his hands to heaven, returned thanks to God, who had conducted him to a discovery so beneficial to his country and so honourable to himself. His followers observing his transports of joy, rushed forward to join in his wonder, exultation, and gratitude. They held on their course to the shore with great alacrity, when Balboa,

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advancing into the waves with his buckler and sword, took possession of that ocean in the name of the king his master, and vowed to defend it with these arms against all his enemies.	
(b) (i) The manner of his death I have never heard; all the world knows that he is dead. (ii) So far from hating him, I am anxious to defend him	15
against his deadliest enemies. (iii) I told him that if he had been wise he would have come the day before.	
2. Mention and illustrate the various uses and meanings of either quin or dum.	5
3. What do you mean by gerundive attraction? Give examples.	5
4. Give, with illustrative examples, the constructions with-	5
polliceor, impero, refert, vereor, pudet.	
5. Distinguish between quisque, quisquem, quisquis; vinxi,	5
vixi, vici; ferri, feri; and give the comparative and superlative of—difficulter, strenuus.	
6. Answer three of the following questions:—	
(a) Describe briefly the relations between Rome and the Gauls, both in and outside Italy, at various periods of her history.	10
(b) Explain:—interregnum, provocatio, cives sine suffragio,	10
nobiles, imperium.	
(c) Sketch briefly the development of Rome's provincial em-	10
pire either before or after 100 B.C., giving the occasion on which each	
province was added.	10
(d) Describe the Constitution of Sulla, and account for its failure.	10
(e) Sketch briefly the reorganization of the Roman Empire by	10
Diocletian.	10
(f) Discuss the importance of the reign of Constantine the Great.	10

LINGUISTICS

FIRST PASS PAPER

Answer FOUR questions.

All questions are of equal value.

1. 'Languages tend from the synthetic to the analytic type.' Discuss this statement.

2. Write a brief essay on the origin of language.

3. Explain the principle of 'morphological classification' of languages. How have languages been thus classified? Name at least one language belonging to each class.

4. What part does analogy play in the development of a language?

What is meant by false analogy?

5. Explain five of the following terms, giving examples:malapropism, doublets, metathesis, reduplication, cognate forms, assimilation, polysynthesis, rhotacism, syncope.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer Question 1 and any FIVE of the reminder.

1. What are the main 'language types' in the world? Specify their distinguishing characteristics and give three examples of each.	20
Are these types in any way connected with each other?	
2. Write short notes on any four of the following:—Russian,	16
	10
Gothic, Etruscan, Basque, Japanese, Finnish.	16
3. How are the Indo-Iranian languages related to each other?	70
Make a table to show these relationships. What position in this	
table would you assign to the Dardic group?	
4. What is meant by 'dentals,' 'velars,' 'labials,' and 'alveo-	16
lars '?	
5. What is the exact difference between a 'sonant' and a 'semi-	16
vowel,' and between a 'spirant' and a 'stop'?	
6. What and where are the following:—the blade of the tongue,	16
the soft palate, the uvula, and the epiglottis?	
Show these, if possible, in a diagram, and also indicate their	
uses in speech or otherwise.	
	10
7. What are the Semitic languages? What is their importance	16
in history? Name their chief peculiarities and mention the names of	
any four of them (ancient or modern).	
8. Write an account of any language family you may choose,	16
except the Semitic and the Indo-European.	

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only BIX questions are to be attempted.

The questions are of equal value.

1. What is language? Write what you know about the Indo-European languages with special reference to their Aryan branch.

2. What do you understand by Indo-Aryan vernaculars? Why are they so called? Name them all and the localities in which they are spoken,

Write a note on Hindi and Hindustani.

4. Write a note on the Pisacas and the modern Pisaca languages.

5. Discuss the theory that the North-western, Southern, and Eastern Indo-Aryan vernaculars are closely connected.

6. Write an account of Eastern Hindi, explaining its position with regard to Hindi and Bihari.

7. Describe the Austric family of speech briefly and name the languages, if any, belonging to it which are spoken in India.

8. Discuss the origin and development of Indo-Aryan vernaculars.

9. Draw a map of India locating the Dravidian and Indo-Aryan languages.

10. Write brief notes on six of the following:—Tulasīdāsa, Lallū Lāl,

Mallik Muhammad, Wali, Rekhti, Kāsmiri, Avadbi, Sapādalakṣa.

HISTORY

Prof. R. P. Khosla, M.A., I.E.S. Paper-Setters—

| Prof. R. P. Khosla, M.A., 1.E.S. | Sir Jadunath Sarkar, Kt., C.I.E., M.A. | Prof. D. R. Bhandarkar, M.A., Ph.D. | Mr. S. B. Smith. | Dr. Hemchandra Raychaudhuri, M.A., Ph.D. | Mr. Pramathanath Banerjee, M.A. | ,, W. C. Wordsworth, M.A. | Dr. Rameschandra Majumdar, M.A., Ph.D. Mr. Bipinbihari Gupta, M.A.

FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Candidates are permitted to answer six questions only, of which not more than two must be taken from any of the groups A, B, C, D.

The questions are of equal value.

A.

- 1. Discuss with the aid of a sketch-map any one of the following:-
- (a) The reasons for the collapse of the power of Charles V in Germany after 1548.

 (b) The operation of the theory of the balance of power during the
- reign of Louis XIV.

(c) The dangers lurking in the Settlement of Vienna.

Compare the services rendered by Luther and Calvin respectively to the Reformation movement.

3. 'The Reformation in France never developed into a national move-

Why? ment.

How far was 4. Give an account of the foreign policy of Richelieu. he right in urging France to a policy of aggrandisement?

B.

5. How far is it true to say that the War of the Spanish Succession was 'a war of trade'?

Was the decline of Poland due principally to foreign rulers and

foreign intervention? Did Russia act wisely in agreeing to the partition?
7. 'The ideal of the early manhood of Joseph II was his mother's foe, Frederick the Great of Prussia; the ideal of his later years was the Empress Catharine of Russia.' Discuss.

8. 'The Seven Years' War was an attempt on the part of Austria and Russia to destroy Prussia; it was the turning-point in the great colonial struggle between England and France.' Develop.

C.

9. How far was the rapid development of the French Revolution due

- to the attitude of the rest of Europe?

 10. 'The people,' said Napoleon, 'must have a religion and that religion must be in the hands of the government.....People say I am a papist. I am nothing. I was a Muhammadan in Egypt. I shall be a Catholic in France for the good of the people. Discuss with reference to the relationship between the Church and the State in France during Napoleon's régime.
 - 11. Give your own estimate of Europe's debt of gratitude to Napoleon. 12. Metternich wrote to his wife: 'I have become a species of moral

power in Germany and perhaps even in Europe.' Do you agree?

D.

To what extent is it true that 'Italy made herself'?

14. Discuss the historical importance of the career of two of the follow-

ing:—(a) Mirabeau, (b) George Canning, (c) Kosciusko, (d Stein.
15. Give a critical estimate of the statesmanship of Bismarck.
16. Decazes's principle was to royalize France and to nationalize monarchy. How far did this policy succeed in France?

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Not more than SIX questions are to be answered.

All questions are of equal value.

The fall of Pitt the Elder was followed by a definite attempt on the part of George III to recover for the royal power many of the prerogatives which the Crown had enjoyed previous to the Revolution of 1688. Elucidate.

2. Describe the progress of manufacture in England during the second

half of the eighteenth century.

3. How far do you agree with the view that North's Ministry marks the triumph of the king and the temporary establishment of the system of departmental government?

4. Though the Stamp Act was a ludicrous failure and had to be repealed, yet it is difficult not to condemn the Americans' attitude alike on technical and legal grounds, and on the broader ground of patriotism. Examine this view.

5. Describe the changes made by North's Regulating Act of 1773 in the composition and administration of the East India Company. How did

this act affect the position of Warren Hastings?
6. The nature of Pitt the Younger was far better suited to the decade

- of reconstruction than to that of revolution. Discuss.
 7. Summarize the history of the Church of England during the reign of George III. How do you account for the rapid growth of dissent during this period?
 - 8. Give a short account of the career and character of Charles Fox.

9. Discuss Napoleon's plan of commercial warfare against Great Bri-

tain, and account for its failure.

10. Show how the Anglo-Irish Union failed either to conciliate Ireland or promote its prosperity. To whom was the blame of this due?

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt FIVE questions only, of which at least ONE and not more than Two must be from each group.

All questions are of equal value.

GROUP A.

1. Tell the story of India's resistance to the Greek invasions and examine in this connexion the accuracy of the remark that 'the great political events which affected India during the ancient period did not call forth popular action in the sense in which the repulse of the Persian attacks on Greece evoked the history c. Herodotus.'

2. Give a brief account of the attempts at Indian political unity during the period 325 B.C. to A.D. 400. Do you notice any difference between the political ideals of the third century P.C. and fourth century A.D. respectively?

3. What justification is there for regarding the struggles of the Post-Gupta period as 'merely wars of crows and kites, in which no deep signification could lie'?

4. Give a brief account of self-governing institutions in Ancient India with special reference to those flourishing in the Chola Empire in the days of Parantaka I and his successors.

GROUP B.

- 5. Give a critical estimate of the character and career of Alau-ddin Khiliji with special reference to the evidence of Ibn Batuta and Ziau-ddin Barnī.
- 6. Point out the importance of the Raichur Doab in the history of the Deccan during the sixteenth century A.D.

7. How far was the greatness of Akbar really due to (a) his predeces-

sors, and (b) contemporary soldiers and statesmen?

8. Describe the part played by women in shaping the destinies of India during the period A.D. 1550-1700.

GROUP C.

\$. Make a comparative estimate of the ideals and methods of Sivajt and Guru Govind Singh.

10. Review the foreign policy of the British government in India during the period A.D. 1818-48. To what extent was the policy justified?

11. Trace the evolution of Council government in British India.

12. Institute a comparison between the principles of government followed by Lytton and Ripon.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer FOUR questions only.

The questions are of equal value.

1. Describe the condition of Greece at the end of the Persian Invasion. To what do you ascribe the Greek triumph? How far had the Greeks any conception of national unity?

2. It is said that only a willingness to admit Greeks of other states into citizenship would have saved Athens once she began to extend her do-

minion. Examine this statement.

- 3. What were the difficulties in the way of exercising sea-power in the Greece of the fifth century B.C.?

 4. After the Persian failure 'Lacedaemon had not the means, and the Lacedaemonian government had not the brains or the spirit to create the means, of carrying out an effective imperial policy.' Discuss this statement.
- 5. Describe the functions and discuss the value of the Athenian Ecclesia. How far was the Athenian system of government effective for meeting the difficulties that Athens had to face in the middle of the fifth century?

6. Write brief notes on any seven of the following:-the Peiraeus, the Ionic Revolt, the Athenian expedition to Egypt, Brasidas, Sphacteria, the Greek colonies in Sicily, Decelea, the battle of Arginusae, demes, the

rule of the Thirty at Athens, the relations between Athens and Corinth.

7. Give some account of the leading writers of your period. From what other sources than these writers is our knowledge of the age derived?

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer FIVE questions.

All questions carry equal marks.

1. Discuss the view that the victory of Rome in the First Punic War was due more to the errors of her enemies than to any other causes.

2. 'Never was the noble struggle of man with fate waged more nobly than by Hamiltan Barca.' Discuss.

3. Give a critical estimate of the causes that led to the failure of Hannibal in Italy.

4. Explain and criticize the following:

'Rome emerged from the Punic War with such changes in the character of her ruling classes and of the masses of her people, that to the clearsighted the elements of decay were visible in the very hour of her greatness.

5. Review Mommson's estimate of Publius Scipio.

6. Discuss the political condition of the eastern countries on the eve of the second Macedonian War. Illustrate your answer by a sketch-map.

7. 'Philip was not the man whom Macedonia at that time required:

yet his gifts were far from insignificant.' Discuss.

8. Discuss the system of administration of the Roman provinces.

9. Give a critical account of trade, industry, and agriculture in ancient Rome. Discuss in this connexion the evils of 'capitalism' slavery.'

'Roman religion was a faith of little spiritual value, and afforded 10.

no cope for religious movements or pious fanaticism.'

SIXTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer Question 9 and any four of the rest.

All questions are of equal value.

1. 'Charles the Great (Charlemagne) transferred the theocratic idea of absolute sovereignty to the Frankish State. He prepared the way for the social institutions peculiar to the middle ages' (Seeliger).

Elucidate the above. Describe Charlemagne's organization of his cur-

pire and account for its fall.

2. The Norman Conquest has been called a blessing in disguise for the English people. Justify this view by a survey of the organization of the administration and national defence, the condition of the courch, and the state of society in England under Norman rule as contrasted with the Anglo-Saxon period. What were the peculiar gifts of the Norman race?

3. It has been said that the Holy Roman Empire was neither holy, nor Roman, nor an empire. Comment on the saying, and explain the basic

idea of this institution and its inherent weakness.

4. Describe the internal organization and problems of the republic of Florence. How did despots come to power in the Italian cities?

5. Study the reign of Louis XI (of France) with special reference to

(a) his foreign dealings, and (b) his real services to France.

6. By what steps and for what reasons did the Popes acquire supreme political power over Rome and a portion of Italy? What were their advantages in their contest with the emperors?

7. Give a short account of the state of trade, industries, the fine arts and learning in the Moorish kingdom of Spain, with a note on the medieval

trade routes.

8. The Byzantine empire is sometimes said to have been unjustly disparaged. Criticize this view, dwelling on the general character of this em-

pire, its achievements, and the causes of its downfall.

9. Write a short essay on Feudalism-how it arose among Germanic races—its different aspects in England and France—' a school of moral discipline ' (HALLAM)—its political conesquences—the causes of its decline.

HISTORY

Mr. Bijaychandra Sengupta, M.A.

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FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable. Six questions to be attempted, All questions are of equal value.

1. Draw a map to show the European dominions of Charles V. Explain how they had fallen into his possession.

Discuss the political influence of the Reformation upon France.
 What were the aims of Charles XII of Sweden? Account for his

failure. Illustrate your answer with a map.

4. Explain the importance of the following treaties as marking stages in the decline of the Turkish power, and illustrate with a map :- Carlowitz, Kutchak-Kainardji, London.

5. Trace the expansion of Prussia from the accession of the Great Elector to the death of Frederick William I. Illustrate your answer by a map.

- 6. Compare the motives by which the participators in the partitions of Poland were actuated, and show by means of a map the share of the spoil that accrued to each.
- 7. Explain the efforts made by Turgot to avert the French Revolution. and account for his failure.
- 8. Sketch briefly the share of Austria in the wars of the period 1789-1815.
- 9. Explain Napoleon's policy of medialization. How was it carried out, and how did it affect the future of Germany?

10. Draw a map to illustrate the political condition of Italy in 1815, and briefly trace the process of the unification of the country.

11. What was he 'Ausgleich' (1866)? Describe the composition of

Joseph II's empire at this time, and illustrate your answer by a map.

12. Trace the history of the Balkan States from 1878 to the Peace of Bucharest. Illustrate your answer by a map.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable. Only FIVE questions are to be answered. The questions are of equal value.

1. Estimate the influence of the writings of Bolingbroke and Burke on the development of party principles and party organization in Kingland during the reign of George III.

2. Discuss the extent of the personal influence of the crown over the government and its policy under King George III.

3. Summarize the steps taken by the British Parliament during the reign of George III to strengthen the control of the Crown over the conduct of Indian affairs.

4. Explain the constitutional importance of the career of John Wilkes.

5. 'No nobler figure ever stood in the forefront of a nation's life.' Explore the truth in this estimate of the character and career of George Washington.

6. Compare the character and powers of the Cabinet in the days of

Newcastle and the younger Pitt respectively.

7. Trace the course of events in Ireland which led to the Rebellion of 1798. What were the main problems of Irish administration in the days of the younger Pitt?
8. Estimate the importance of English sea-power in the wars of the

time of George III.

9. Discuss the accuracy of the statement that Castlereagh inherited and

fulfilled the political tradition of the younger Pitt.

10. Give an account of British colonial enterprise in the reign George III, with special reference to the part played by James Cook.

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Six questions to be attempted. From each section at least ONE question should be answered.

The questions are of equal value.

1. Describe the nature of the civilization of India in the Mauryan period.

'The Gupta period is in the annals of classical India almost what the Periclean age is in the history of Greece.' Justify this remark.

3. Give an account of Harshavardhana and his times.

Describe the raids of Mahmud of Ghazni, and estimate their results.

B.

5. What account of the Vijaynagar dynasty is preserved in the writings of contemporary European travellers?

6. Give a brief account of the reign of Firoz Tughlaq and enumerate

the principal causes of the downfall of the Pathan Empire.

7. Whom do you regard as the greatest Muhammadan Emperor? Give reasons for your answer.

8. Describe Sivaji as a man, conqueror, and ruler.

9. Give an account of the European struggle for supremacy in India in the seventeenth and eighteenth centuries, and explain why the English of all the European nations were able to be successful.

10. Describe the foreign policy of Lord Minto (1807-1818).
11. Explain and comment on (a) balance of power, (b) non-interven tion policy, and (c) subsidiary system.

12. Describe the causes and after-effects of the Mutiny of 1857.

ECONOMICS

PROF. PRAMATHANATH BANERJEA, M.A., D.Sc., BARRISTER-AT-LAW, M.L.C. RADHAKAMAL MUKHERJEE, M.A., Ph.D. Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law, M.L.C. SIR J. C. COYAJEE, KT., B.A., LL.B. Examiners—

SIR J. C. COYAJEE, MT., D.M.,
MR. W. C. WORDSWORTH, M.A.
DR. RADHAKAMAL MUKHERJEE, M.A., PH.D.
MR. JOHN KELLAS, M.A.
,, JITENDRAPRASAD NIYOGI, M.A., PH.D.

FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

The questions are of equal value.

1. What is "consumer's surplus'? Discuss the criticisms that have been levelled against it.

2. 'Value is determined by marginal utility.' 'Value is determined by cost of production. Discuss these statements carefully bringing out the importance of the time element in the theory of value.

3. What do you understand by 'unearned increment'? It is desirable that it should be taxed? Discuss the difficulties in the way of taxing it.

4. Carefully examine the effects of—(a) improved methods of cultivation, and (b) reduction in cost of transport on the rent of land.

5. 'Wages tend to be equal to the net marginal product of labour.'

Carefully discuss this statement.

6. State carefully the essentials of a good banking system. Discuss the necessity of such a system for the commercial prosperity of a nation.

7. Explain carefully how the rate of discount influences (a) the prices of securities, and (b) the foreign exchanges.

8. Discuss the causes that are held to be responsible for crises. Care-

fully examine the methods suggested to prevent them.

9. What do you understand by 'invisible exports' in the balance of indebtedness between two countries? Illustrate your answer by concrete examples in the case of any two countries.

10. State and critically examine the 'quantity theory of money.'

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt only FIVE questions.

The questions are of equal value.

1. State the principles and methods of the distribution of powers between the central and local governments in a federal system.

What, if any, is the nature of control exercised by the central government over the local governments in such a system?

2. Give a definition of 'State' as a concept in political science. Is this concept the same as that used in 'International Law'?

Is the League of Nations a State?

3. State the fundamental ideas of-

(a) the social contract theory; (b) the organic theory of the State.

Point out the elements of truth in each of these theories.

4. Bring out the distinction between legal and political sovereignty. Illustrate this distinction by reference to England and the United States of America.

5. Discuss the relation between the executive and the legislative organs

of the State.

What are the powers vested in the executive organ?

6. What are the nature, constitution, and functions of the Administrative Courts in France?

Indicate their chief merits.

7. State the nature and extent of administrative and legislative control exercised by the Crown and the King in Parliament over Indian administration and legislation.

What are the legislative powers of the Governor-General?

8. Contrast the main features of the presidential and the parliamentary forms of government.

Is the system of government in France parliamentary or presidential?

Give your reasons.

9. Discuss the necessity and justification of the party system in a

democracy. What are its principal merits and defects?

10. Write a short essay not exceeding eighty lines on communal representation in India.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt FIVE questions.

All questions are of equal value.

1. Briefly describe the geographical distribution of the population of

India, and analyse the causes that determine it.

2. What are the economic effects of the joint family system in India? Suggest methods by which its defects can be eliminated while retaining its good features.

3. Describe the means by which the Indian cultivator can be enabled to obtain higher prices for his products. What would be the effect on the rent which he would pay to his landlord?

4. Estimate the importance of cottage industries in the rural economy

of India. Discuss the ways and means of making them more efficient.

5. Examine the effects of the permanent settlement of land revenue in Bengal. How has it affected the incidence of taxation as a whole? Can you suggest any remedy for its evils?
6. Would you advocate borrowing foreign capital to develop the natu-

ral resources of India? Discuss the relative merits and defects of the system.

7. What are the main defects of the present currency position of India? What measures would you suggest to remedy them? Give reasons. 8. Enumerate and comment upon the main items of expenditure and the chief sources of revenue of the Government of India. Are you satisfied with the allocation of the heads of revenue between the Central and Provin-

cial Governments? 9. Explain the organization of co-operative credit societies in India,

and describe their progress in Bengal.

10. Clearly explain the advantages of rural co-operative credit societies in India.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

The questions are of equal value.

1. Define wealth and discuss its relationship with welfare.

2. What are the institutions which may be regarded as the foundation of the existing economic order?

3. Neither consumers nor labourers have any share in the conduct of

industry at present.

Examine this charge against the capitalistic organization of industry.

4. What is the explanation of the fact that society does not consistently or in right quantities produce the articles that it needs most?

5. Explain with the help of diagrams the equilibrium of the forces of demand and supply in determining price.

6. Why are some occupations overcrowded with consequent low earn-

ings and some under-staffed with consequent high earnings? 7. Write notes on: the bank rate, median, incidence of talation,

fiduciary issue, purchasing power parity.

8. Compare the advantages of gold and paper for serving as the money commodity in a country.

9. State the case for stabilization of the value of money.

10. Why do modern states rely more on direct than on indirect taxes for raising their revenues?

11. If you are to regulate the activities of banks by law, what laws would you make?

FIFTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Any FIVE questions to be answered.

The questions are of equal value.

1. Examine, with special reference to the views of Aristotle, the statement that Greek democracy was a close aristocracy with relation to the total population of the state.

2. Give and appraise Aristotle's argument on the subject of Communism.

3. How does Aristotle classify democracies, and how far have his views

on the different qualities of democracies been borne out by history?

4. Examine Aristotle's argument leading to his answer to the question whether the virtue of the good man is the same as that of the good citizen.

5. Examine John Stuart Mill's views on the criteria of a good form of government. Compare his views with those of Aristotle.

6. What, in Aristotle's view, are the chief causes of revolutions, and

what does he consider to be the best method of avoiding them?

7. Examine John Stuart Mill's views on instructed representation.

8. Examine John Stuart Mill's views on the effects of 'sinister interests' on representative government. What are the chief methods used by modern democracies to overcome such effects?

9. Compare the views of Aristotle and John Stuart Mill on the place

of education in the state.

SIXTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Write an essay on any one of the following subjects:-

100·

(a) Indian poverty: its causes and remedies.

(b) Foreign capital: its use and abuse.
(c) Dominion status for India versus complete independence.
(d) Subject peoples and the right of self-determination.

ECONOMICS

Mr. Akshaykumar Sarkar, M.A.

Satischandra Chakrabarti, M.A.

,, PRAPHULLAKUMAR CHATTERJEE, B.A., B.Sc.

PRASADCHANDRA BANERJEE, B.A., B.Sc.

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Mr. JYOTISCHANDRA DASGUPTA, M.A.

Examiners-

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any BIX questions.

The questions are of equal value.

1. Comment on the following: - 'Economic laws are essentially hy-

pothetical ' (SELIGMAN).

2. Consider whether the following should be regarded as capital:-(a) a surgeon's skill, (b) savings accumulated in the form of a deposit at a savings bank, (c) Government of India War Loan, (d) money in circulation

3. Indicate the advantages of large-scale production.

4. How is value determined under conditions of (a) monopoly, and (b) competition?

5. In what different ways is it possible to combine gold and silver in

the currency system of a country?

- 6. 'While changes in the price level.....influence the rate of interest, it must not be forgotten that on the other hand changes in the rate of interest itself affect the general price level' (Seligman). Discuss this state-
- 7. In what sense is it true that imports must in the long run pay for exports?

8. How far is it true to say that the theory of wages is an applica-

tion of the general theory of value?

- 9. Is it possible to abolish or to mitigate poverty by checking population?
- 10. Define a tax. Explain and illustrate Adam Smith's first canon of taxation.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer FIVE questions. At least Two must be answered from each group.

The questions are of equal value.

GROUP A.

1. Criticize the social contract theory of the origin of the State.
2. 'The safety of the State is its first law, and to realise this end it must be above morality.' Comment on the statement.
3. How far should the State undertake social reform?
4. What arguments from political theory would you use in supporting or rejecting (a) communal representation, and (b) compulsory education?

S. Discuss briefly the recent changes in the concention of Soversignty.

5. Discuss briefly the recent changes in the conception of Sovereignty.

GROUP B.

6. Discuss the use and limitations of the party system. Answer with special reference to the conditions in the Indian Assembly.

7. Discuss the position of the Cabinet in England. To what extent

has the Cabinet usurped the functions of Parliament?

8. Examine briefly the case for (a) functional, and (b) territorial representation in the modern state.

9. Examine clearly the mutual relations of the Viceroy, the Executive

Council and the Assembly in India.

10. Why is there special danger in India of the instruments of democratic control being captured and engineered by powerful interests?

THIRD PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any SIX questions.

1. Discuss the economic effects of the joint family and caste systems in India. Would you advocate the abolition of these systems? Give reasons for your answer.

2. What are in your opinion the defects and difficulties of Indian agri-

culture? What steps would you suggest for their removal?

3. What do you mean by the monsoons in India? Describe the various economic consequences which follow from their failure.

4. State the salient features of the Permanent and Temporary settle-

ments in India, and discuss their merits and defects.

- 5. What led to the enactment of the Co-operative Societies Act of 1912? In what respects has this Act been an improvement upon the Co-operative Credit Societies Act of 1904?
- 6. State some of the striking economic and social effects that have followed from the construction of railways in India. Do you think that any further extension of the Indian railway system is desirable?

7. Describe the chief features of India's foreign trade, and account for

the normal excess of her exports over her imports.

8. Do you think that it will be in the best interests of India that she should now be included in any scheme of Imperial Preference? Give reasons for your answer.

9. Examine the arguments for and against the use of foreign capital

in India.

- 10. Write notes on any three of the following:-

(a) Council drafts.(b) Reverse drafts.

(c) The gold exchange standard.
(d) Unlimited liability.
(e) The Co-operative Agricultural Sale Society.

MENTAL AND MORAL PHILOSOPHY

Paper-Setters—

Paper-Setters—

Paper-Setters—

Paper-Setters—

Record Prof. S. Radhakrishnan, M.A., D.Litt.
Dr. Susilkumar Maitra, M.A., Ph.D.
MR. Haridas Bhattacharyya, M.A.
M.A., Satischandra Chatterjee, M.A.
Dr. Sisirkumar Maitra, M.A., Ph.D.
M.A., Sarojkumar Das, Ph.D.

Examiners—

| Rai Bahabur Hemchandra De, M.A.
| Dr. Surendranath Dasgupta, M.A., Ph.D.
| Prof. Hiralal Haldar, M.A., Ph.D.
| J.D.
| D.D.
| S. Radhakrishnan, M.A., D.Litt.
| Dr. Mahendranath Sarkar, M.A., Ph.D.

FIRST HONOURS PAPER

PSYCHOLOGY.

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

The questions are of equal value.

- 1. In what sense is psychology a science? What is the distinction between psychology and the physical sciences? How is psychology related to education?
- 2. What are the difficulties of introspection as a method of psychology, and how are we to overcome them? Can objective observation or experiment take the place of the introspective method?
- 3. 'Consciousness does not terminate with sharp edges which mark it off definitely and finally from the nonconscious.' Discuss fully the implications of this statement.
- 4. Describe the structure of the eye. Explain and examine the physiological theories of light-sensation as formulated by Helmholtz and Hering.
- 5. 'All the conscious processes of an individual enter as factors into the determination of his subsequent conscious activities.' Discuss this with special reference to the different forms of imagination.
- 6. What is the nature of attention? How do you distinguish between involuntary and voluntary attention? What are the conditions of development from the one to the other?
- 7. What is meant by action in the line of greatest resistance'? What light does it throw on the nature of voluntary action?
- 8. Write explanatory notes on:—(a) perceptual-reflex, (b) after-image, (c) ideo-motor action, (d) apperception, (e) behaviour.

SECOND HONOURS PAPER

ETRICS.

Candidates are required to give their answers in their own words as far as practicable.

Answer FIVE questions only.

The questions are of equal value.

1. Are there any universal principles of morality? How does the possibility or otherwise of such principles affect the position of Ethics as a science?

2. Distinguish between customs, laws, manners, and fashions, and show

their relation to morality.

3. Discuss the formula 'greatest happiness of the greatest number.' Do you consider unequal distribution of wealth to be consistent with this formula?

4. How is the Individual related ethically to the Government of his country? What, in your opinion, are the limits of obeying the laws of one's country?

5. What do you understand by a Sanction? What is the sanction by which a man is restrained (a) from committing a murder, (b) from vulgarity

and bad manners, (c) from desiring the downfall of a rival?

 Analyse the feeling of Indignation, and estimate its moral value.
 Distinguish between Legal and Moral Responsibility. Discuss the question whether, and how far, moral responsibility attaches to (a) mad actions, (b) drunken excesses, (c) criminal acts due to inherited moral dispositions.

8. Do you consider the maxim 'virtue is its own reward 'a sufficient principle of morality? Discuss the question with special reference to the

connexion, if any, between virtue and happiness.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

The questions are of equal value.

1. Discuss the definition of Philosophy as 'the science of all interpre-

1. Discuss the definition of Philosophy as the science of an interpretations of the world '(Marvin), and show how far it serves to determine the province of Philosophy and its relation to Epistemology.

2. Explain what you understand by Idealism and Realism as theories based on the analysis of experience. Review critically the statement that the 'historical importance of Berkeley rests on the fact that he made epistemological idealism the basis for metaphysical idealism '(Paulsen).

3. Expound and examine the views of Space and Time as (a) 'entities' (b) 'forms of percention' and (c) abstract potions'

tities, (b) forms of perception, and (c) abstract notions.

4. Is Matter a percept or a concept of the human mind? Elucidate briefly the theories, regarding the constitution of Matter, formulated by

modern physical science.

5. Examine the position that Evolution is not a cause but a method, and, as such, compatible alike with Mechanism and Teleology. How would you justify the contention that there is no opposition whatever between the mechanical explanation and the idealistic interpretation as such ' (PAULSEN)?

6. Develop the distinction between Emergent and Repetitive evolution. How does Bergson's creative evolution bear on this problem?

7. Is Panpsychism the necessary consequence of the Parallelistic theory? Give a critical estimate of the arguments for and against Panpsychism. On what grounds is it contended that 'it is a problem for science rather than for metaphysics' (MARVIN)?

8. Discuss fully the bearing of the theories of Transcendence and Immanence on the relation of God to man. How would you view the claims of

Pluralism in this context?

FOURTH HONOURS PAPER.

NATURAL THEOLOGY.

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

The questions are of equal value.

1. Is religious consciousness an original psychosis? Discuss the question by referring to the problem how far it has an instinctive basis or a spontaneous origin in the nature of human consciousness.

2. Has the doctrine of creation any sound philosophical justification?

Does the denial of creation in time necessarily imply the atheistic position?

3. What is the special object of the Moral Argument for the existence of God?

Would it make any difference in the resulting conception of God if the

moral nature of man were to disappear entirely?

4. Either, Briefly outline the theistic view either of Spinoda, or of Leibnitz, or of Kant, and discuss how far it is an adequate conception of the nature of God.

Or, Discuss critically how far the doctrine of the relativity of

knowledge implies the unknowability of God.

5. If you believe that the world is governed by any purpose, adduce evidence in support of your belief. If you do not, give reasons for your answer.

6. Either, Science and Religion are supposed to be antagonistic to each other. What is the basis of this conflict? Does the advancement of science necessarily involve the decay of religious faith?

Or, Give a brief outline of the Positivistic view of religion, and discuss the question whether in any respect a religion of Humanity fails to

satisfy a genuine religious need.

7. Does the existence of evil or of human freedom necessarily imply the finitude of God? If it does not, then attempt a reconciliation of both with the infinity of God.

8. Explain the following terms clearly:—deism, meliorism, accosnism,

phenomenalism, pluralism.

FIFTH HONOURS PAPER.

HISTORY OF PHILOSOPHY.

Candidates are required to give their answers in their own words as far as practicable.

Only FIVE questions are to be attempted.

All the questions are of equal value.

1. Explain fully the meaning of Descartes's principle, Cogito ergo sum. How far did Descartes succeed in remaining true to this principle?

2. Fully discuss Spinoza's conception of substance. Show that the defects of Spinoza's philosophy are all traceable to the defects of this conception.

8. Indicate the position of Hobbes in the history of philosophy, noticing

especially his relation (a) to Bacon, (b) to Descartes.

4. Locke's Essay on the Human Understanding has been called the English 'Critique of Pure Reason.' How far is this title justified?

5. Either, Is Berkeley's philosophy a form of occasionalism? Fully

discuss this question.
Or, Is the ethical teaching of Spinoza consistent with his metaphysics?

6. Give a brief sketch of the growth of empiricism from Bacon to Hume.

7. Either, Show how Leibnitz's problem may be looked upon as that of reconciling the principle of individuality with that of continuity.

Or, 'A monadism, if it is consistently logical, is necessarily atheistic.'

How far do you accept this view?

8. 'How are synthetic judgments a priori possible?' What does Kant mean by stating the problem of the Critique of Pure Reason in this manner.

9. Is the standpoint of the Critique of Practical Reason inconsistent with that of the Critique of Pure Reason? Fully discuss this question.

SIXTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer Questions 6 and 7 and any other THREE.

The figures in the margin indicate full marks.

1. Give a critical exposition of Locke's theory of substance.	15
2. Examine the value of Descartes's criterion of truth.	15
3. Expound Spinoza's theory of final causes.	15
4. What use does Leibnitz make in his system of the doctrine	15
of pre-established harmony?	
5. Briefly outline Kant's metaphysical deduction of the categories.	15
6. How does Descartes formulate the ontological argument? Esti-	
mate its value.	
7. Write an essay on any one of the following subjects:—	40
(a) Freedom and causality.	
(b) The place of the unconscious in human behaviour.	
(c) Religious experience and its validity.	

PHILOSOPHY—PASS

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•	,, Roy Rowland Thomas, M.A.

FIRST PASS PAPER.

PSYCHOLOGY.

Candidates are required to give their answers in their own words as far as practicable.

Answer any six questions.

The questions are of equal value.

1. What do you understand by psychology? How is it related to physiology? Is it possible to reduce psychology to physiology, or make it quite independent of physiology?

2. What are the principal methods of psychological investigation, and

how do they co-operate to build up the science of psychology?

3. What are the ultimate elements of our mental life, and how are

they related to one another?

Examine in this connexion the truth of the statement: 'If any one of the three species of conscious elements is to be regarded as the original form of consciousness, it must evidently be the will.'

4. Describe the structure and functions of the human brain in relation

to mental life. Explain and examine the phrenologists' localization of men-

tal functions.

5. Distinguish between stimulus and sensation. How do variations in the intensity of stimulus correspond to those of sensation? Give some experimenal facts and examine the Weber-Fechner law on this point.

6. Analyse the emotions of fear and anger, love and hate, pointing out

their characeristic differences in expression.

7. What do you understand by voluntary action? How is it conditioned in its origin and development by habit, instinct, and emotion?

8. Write explanatory notes on:—(a) sensation-reflex, (b) reactiontime, (c) inhibition, (d) assimilation, (e) complication.

SECOND PASS PAPER.

ETRICS.

Candidates are required to give their answers in their own words as far as practicable.

Answer SIX questions only.

The questions are of equal value.

1. What place in ethics would you assign to unconscious actions? Are

actions done from habit to be judged morally?

2. Discuss the doctrine of evolution in its application to morality, and

show how far it has affected the principles of ethics.

3. Analyse the concept of the moral self, and discuss self-realization as the highest ethical end.

4. Distinguish between legal right and moral right. 'It may not always be right to do what one has a right to do.' Explain and discuss.

5. Are there 'conflicting duties'? Discuss the question with special

reference to how conflicting moral rules are dealt with (a) by Intuitionalism, (b) by Utilitarianism.

6. On what ethical grounds would you condemn (a) an act of suicide, (b) Antonio's contract with Shylock as regards the pound of flesh?

7. 'Moral obligation is founded on the belief that virtue is enjoined by

the command of God.' Explain and discuss.

8. Estimate the value of Kant's categorical imperative as a criterion of moral life.

THIRD PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

The questions are of equal value.

1. Discuss the definition of philosophy as 'the sum total of scientific knowledge,' and indicate the relation in which philosophy stands to science.

Epistemology is a critical reflection on metaphysics.' Explain in the light of the above the relation of epistemology to philosophy, and the function of criticism as a method of philosophical knowledge.

3. What do you understand by a category of knowledge? Explain fully the nature of causality as a category.

4. State what appears to you to be the truth of the principle of Conservation of Energy. Is its validity determined a priori or a posteriori? Determine the meaning of Correlation in this context.

5. Show how far the species-idea is modified by the concept of Evolution. What are the main points at issue between mechanical and teleolo-

gical evolution?

6. What, in your opinion, is the relation between Mind and Body? Examine critically the different theories bearing on this problem.

7. Develop the implications of the idea of the Absolute, and show that it is not necessarily inconsistent with the idea of God.

8. Write explanatory notes on the following:—(a) Social self, **(b)** Ethos, (c) Sub specie aiernitatis.

B.A. and B.Sc. Examinations

MATHEMATICS—HONOURS

FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Full marks for any SEVEN questions.

1. If C, denote the coefficient of x' in the expansion of (1+x), show that

$$13.C_1^2 + 23.C_2^2 + 33.C_3^2 + ... + n3.C_n^2 = \frac{n^2(n^2-1)(2n-3)!}{\{(n-1)!\}^2}.$$

2. If n be any integer, prove that

$$\left\{\frac{n(n+1)^3}{8}\right\}^n > (n!)^4.$$

The four quantities a, b, m, n being supposed positive, show that unless a and b are equal,

$$(ma+nb)^{m+n} > (m+n)^{m+n}a^mb^n$$
.

3. Test the convergency of the series

$$\frac{x}{2} + \frac{1.3}{2.4} \cdot \frac{x^3}{6} + \frac{1.3.5.7}{2.4.6.8} \cdot \frac{x^5}{10} + \frac{1.3.5.7.9.11}{2.4.6.8.10.12} \cdot \frac{x^7}{14} + \dots$$

Shew that the series whose general term is u is convergent or divergent, according as

$$\lim_{n\to\infty}\left(n\log\frac{u_n}{u_{n+1}}\right)>1, \text{ or } <1.$$

4. If s. denote the sum to n terms of the series

$$1.3.2^{2} + 2.4.3^{2} + 3.5.4^{2} + ...$$

and σ_n that of the series

$$\frac{1}{1.2.3.4} + \frac{1}{2.3.4.5} + \frac{1}{3.4.5.6} + \dots$$

show that

$$540s_{-}\sigma_{-} - 30\sigma_{-} + 18n(2n+3) = 0$$

5. If p_n/q_n denote the nth convergent to a continued fraction, prove that

$$p_nq_{n-1}-p_{n-1}q_n=(-1)^n$$
.

Show that the difference between the first and nth convergents is numerically equal to

$$\frac{1}{q_{1}q_{2}} - \frac{1}{q_{2}q_{3}} + \frac{1}{q_{2}q_{4}} - \dots + (-1)^{n} \frac{1}{q_{n-1}q_{n}}.$$

6. Prove that

(i)
$$\begin{vmatrix} (b+c)^2 & a^2 & a^2 \\ b^2 & (c+a)^2 & b^2 \\ c^2 & c^2 & (a+b)^2 \end{vmatrix} = 2abc(a+b+c)^3.$$
(ii)
$$\begin{vmatrix} 1 & 2 & 3 & 4 \\ 2 & 3 & 4 & 5 \\ 3 & 4 & 5 & 6 \\ 4 & 5 & 6 & 7 \end{vmatrix} = 0.$$

7. Prove that between every pair of consecutive real roots of a rational integral equation f(z)=0, there is an odd number of real roots of the equation f'(x) = 0.

Show that the equation $x^5-5px^3+2q=0$, will have three real roots. provided $27p^5 > q^2$.

8. Find the equation whose roots are the squares of the roots of the equation

$$a_0x^n-a_1x^{n-1}+a_2x^{n-2}-...+(-1)^na_n=0.$$

The equation whose roots are the squares of the roots of the cubic

$$x^3 - ax^2 + bx - 1 = 0$$

is found to be identical with this cubic. Prove that

either (1)
$$a = b = 0$$
, or (ii) $a = b = 3$,

(iii) a and b are the roots of $z^2 + z + 2 = 0$.

9. Find the criteria of the nature of the roots of the cubic

$$ax^3 + 2bx^2 + 3cx + d = 0$$

Hence prove that the equation

$$2x^3 + 3ax^2 + 6a^2x + b = 0$$

has only one real root.

10. Find Euler's cubic for the biquadratic equation

$$ax^4 + 4bx^3 + 6cx^2 + 4dx + e = 0$$

and prove that:

(i) when the roots of the biquadratic are all imaginary, the roots of Euler's cubic are real, two being negative and one positive;

(ii) when the biquadratic has two real and two imaginary roots.

Euler's cubic has two imaginary roots and one real positive root.

11. (i) Find all the roots of the equation $x^4 :+ x^3 - 2x^3 + 4x - 24 = 0.$

(ii) Find the real root of $x^3 + x + 1 = 0$

correct to three decimal places.

SECOND HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Candidates are required to attempt SEVEN questions only, of which not more than FOUR are to be selected from the same group,

GROUP A.

1. Determine the value of λ for which the equation

$$ax^2 + by^2 + 2gx + 2fy + 2\lambda xy = 0$$

will represent a pair of right lines and prove that one of the lines is the tangent at the origin to the curve

$$ax^{2} + by^{2} + 2gx + 2fy + 2\lambda xy = 0$$

for any value of λ .

If a and β are the angles which a line makes with the co-ordinate axes, prove that

$$\cos^2 \alpha + \cos^2 \beta - 2 \cos \alpha \cos \beta \cos \omega = \sin^2 \omega$$
.

the axes being inclined at an angle.

2. Prove that the transformation of rectangular axes which converts

$$\frac{X_2^2}{p} + \frac{Y_2^2}{q}$$
 into $ax^2 + 2hxy + by^2$ will convert $\frac{X_2^2}{p-\lambda} + \frac{Y_2^2}{q-\lambda}$ into

$$\frac{ax^{2}+2hxy+by^{2}-\lambda(ab-h^{2})(x^{2}+y^{2})}{1-(a+b)\lambda+(ab-h^{2})\lambda^{2}}.$$

The vertices of a triangle lie on the lines

$$y = x \tan \alpha$$
, $y = x \tan \beta$, $y = x \tan \gamma$,

the circumcentre being at the origin. Show that the locus of the orthocentre is the line

$$x(\sin \alpha + \sin \beta + \sin \gamma) - y(\cos \alpha + \cos \beta + \cos \gamma) = 0.$$

3. Find the equation of the director circle of the conic

$$(ax + by - 1)^2 = 2kxy$$
;

and prove that for different values of k, the director circles are coaxal.

4. Show that the area of a triangle whose sides touch the ellipse $x^2/a^2 + y^2/b^2 = 1$ at the points ϕ_1 , ϕ_2 , ϕ_3 is

ab
$$\tan \frac{1}{2} (\phi_1 - \phi_2) \tan \frac{1}{2} (\phi_2 - \phi_3) \tan \frac{1}{2} (\phi_3 - \phi_1)$$
.

Prove that the locus of a point from which two tangents to the ellipse make equal angles with the line

$$y=x \tan \theta$$
 is the rectangular hyperbola $x^2-2xy \cot 2\theta-y^2=a^2-b^2$.

5. Transform the equation of the conic

$$x^2 + 4y^2 - 2x - 16y + 1 = 0$$

to its principal axes, and give a rough sketch of the curve.

Find also the eccentricity of the conic.

6. Obtain the equation of a parabola, referred to two tangents, inclined at an angle ω , as axes, in the form

$$\sqrt{\alpha x} + \sqrt{\beta y} = 1$$
.

Show that the focus of the parabola is given by the equations $x/\alpha = y/\beta = x^2 + 2xy \cos \omega + y^2$.

7. If the co-ordinates of a point on the hyperbola $xy=c^2$ are represented by x=ct, y=c/t, prove that the normals at the four points t_1 , t_2 , t_3 , t_4 will be concurrent if $x_1, t_2=0$ and $t_1, t_2, t_3=0$.

Prove that the polar of any point on an asymptote of a hyperbola with respect to the hyperbola is parallel to that asymptote.

8. If $A+B+C=\pi$, prove that

$$\begin{vmatrix} \sin^2 A & \cot A & 1 \\ \sin^2 B & \cot B & 1 \\ \sin^2 C & \cot C & 1 \end{vmatrix} = 0.$$

If θ and ϕ satisfy the equation

$$\sin \theta + \sin \phi = \sqrt{3} (\cos \phi - \cos \theta),$$

show that

$$\sin 3\theta + \sin 3\phi = 0.$$

9. Eliminaxe θ from the equations

$$x \sin \theta + y \cos \theta = 2a \sin 2\theta$$
,
 $x \cos \theta - y \sin \theta = a \cos 2\theta$.

Solve the equation

$$\cos^{-1}(x+\frac{1}{4})+\cos^{-1}x+\cos^{-1}(x-\frac{1}{4})=\frac{3}{4}\pi.$$

10. Given that the sides of a triangle are in A. P. and the greatest angle exceeds the least by 90°, show that the sides are as

$$\sqrt{7}+1: \sqrt{7}: \sqrt{7}-1.$$

If the centre of the in-circle be equidistant from the centre of the circumcircle and the orthocentre, prove that one angle of the triangle is 60°.

11. If the roots of the equation $ax^2 + bx + c = 0$ be imaginary, show that the co-efficient of x^2 in the development of $(ax^2 + bx + c)^{-1}$ in powers of x is

$$\frac{a^{\frac{1}{2}n}\sin(n+1)\theta}{c^{\frac{1}{2}n+1}\sin\theta},$$

where θ is given by $b \sec \theta + 2\sqrt{ac} = 0$.

12. Reduce $\tan^{-1}(\cos\theta+i\sin\theta)$ to the form a+ib, and hence show that

$$\cos \theta - \frac{1}{8} \cos 3 \theta + \frac{1}{6} \cos 5 \theta - \dots = \pm \frac{\pi}{4}$$

the upper or lower sign being taken, according as $\cos \theta$ is positive or negative.

13. Establish either of the expansions

$$\tan z = 8z \quad \sum_{1}^{\infty} \frac{1}{(2m-1)^{2}\pi^{2} - 4z^{2}},$$

$$\cot z = \frac{1}{z} + 2z \quad \sum_{1}^{\infty} \frac{1}{z^{2} - r^{2}\pi^{2}}.$$

Prove that

$$\left(1 + \frac{2}{1+1^2} + \frac{2}{1+2^2} + \frac{2}{1+3^3} + \dots\right) \times \\ \left(\frac{1}{4+1^2} + \frac{1}{4+3^2} + \frac{1}{4+5^2} + \dots\right) = \frac{\pi^2}{8}.$$

14. Factorize

$$x^{2^n}-2x^n\cos\theta+1$$

Show that the sum of the series

$$1 - \frac{1}{2} \cos \theta + \frac{1 \cdot 3}{2 \cdot 4} \cos 2 \theta - \frac{1 \cdot 3 \cdot 5}{2 \cdot 4 \cdot 6} \cos 3\theta + \dots is \frac{\cos \frac{1}{4} \theta}{\sqrt{2 \cos \frac{1}{8} \theta}}$$

where θ lies between $\pm \pi$.

THIRD HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Candidates are expected to answer SIX questions, of which only FOUR are to be selected from GROUP A and the rest from GROUP B.

GROUP A.

1. Ascertain analytically the conditions

(i) that four points, whose Cartesian co-ordinates are known, may lie in a plane; and

(ii) that four planes, whose Cartesian equations are known, may meet at a point.

Verify that the four points

$$(1, 1, 1), (a, b, c), (a^2, b^3, c^4), (a^3, b^4, c^5)$$

are coplanar, whenever the four planes

$$x+y+z=1,$$

 $ax+by+cz=1,$
 $a^{3}x+b^{3}y+c^{3}z=1,$
 $a^{3}x+b^{3}y+c^{3}z=1$

pass through a common point, and conversely. Finally show that the requisite condition in either case is that at least two of the quantities

1, a, b, c

be equal.

2. Investigate the shortest distance between the two right lines

$$\frac{x-a}{l} = \frac{y-\beta}{m} = \frac{z-\gamma}{n}$$

mnd

$$\frac{x-\alpha'}{l'} = \frac{y-\beta'}{m'} = \frac{z-\gamma'}{n'},$$

Find the shortest distances between the following three lines, taken in pairs:

$$\frac{x-1}{5} = \frac{y+1}{7} = \frac{z-1}{2},$$

$$\frac{x-2}{3} = \frac{y+2}{10} = \frac{z-2}{7},$$

and

$$\frac{x-3}{2} = \frac{y+3}{7} = \frac{z-3}{5};$$

and verify that the three shortest distances coincide in position.

3. Obtain the condition that the cone

$$ax^{2} + by_{1}^{2} + cz^{2} + 2fyz + 2gzx + 2hxy = 0$$

may admit three mutually perpendicular generators. How would you insterpret the condition if the cone were improper?

Show that the cone

$$5uz - 8zx + 3xy = 0$$

contains a triad of orthogonal generators, one of which is

$$\frac{x}{1} = \frac{y}{2} = \frac{z}{3}.$$

Also find the equations to the other two lines forming the triad.

4. Find the condition that the plane

$$lx + my + nz + p = 0$$

may touch the paraboloid

$$\frac{x^2}{a^2}-\frac{y^2}{b^2}=\frac{2z}{c}.$$

The condition of tangency being taken for granted, prove that the section of the surface made by the plane consists of two right lines, parallel respectively to the two planes

$$\frac{x}{a} + \frac{y}{b^1} = 0$$

and

$$\frac{x}{a} - \frac{y}{b} = 0.$$

5. Given the conicoid (8)

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1,$$

prove that an infinity of tangents can be found having the same fixed direction-cosines (l, m, n) and that these trace out the locus

$$\frac{m}{m} \left(\frac{x^3}{a^3} + \frac{y^2}{b^3} + \frac{z^3}{c^3} - 1 \right) \left(\frac{l^3}{a^3} + \frac{m^2}{b^3} + \frac{n^2}{c^3} \right) = \left(\frac{lx}{a^3} + \frac{my}{b^3} + \frac{nz}{c^2} \right)^2.$$

Prove further that the points of contact of the above set of parallel tangents with the quadric (S) are situated in that particular plane, which contains the mid-points of all chords of S drawn parallel to the direction (l, m, n).

6. For the ellipsoid

$$\frac{x^{\frac{a}{a}}}{a^{\frac{a}{b}}} + \frac{y^{\frac{a}{b}}}{b^{\frac{a}{a}}} + \frac{z^{\frac{a}{b}}}{c^{\frac{a}{a}}} = 1, (a > b > c);$$

prove that the only real circular sections are those whose planes are of the forms

$$\frac{x}{a} \sqrt{a^2-b^2} \pm \frac{z}{c} \sqrt{b^2-c^2} = \lambda,$$

where λ is an arbitrary constant.

Express the radius (R) of any of the circular sections in terms of the associated value of λ and examine when and how R vanishes. Hence locate the four real umbilies of the quadric.

7. Show that a hyperboloid of one sheet possesses two distinct systems of generators, which are so constituted that no two lines of the same system intersect at a point, whereas lines of opposite systems never fail to intersect.

Construct the equations of the two generating lines (PQ, PR), which pass through an arbitrary point P on the hyperboloid

$$x^2 + \eta^2 - z^2 = 1$$
.

and verify that, for PQ, PR to be at right angles to each other, the necessary and sufficient condition is that P should be at a unit distance from the centre of the surface.

8. Define the principal radii of curvature (ρ_1, ρ_2) belonging to an arbitrary point (x, y, z) on the surface

$$z=f(x, y),$$

and form the algebraic quadratic, whose roots are ρ_1 and ρ_2 .

By general reasoning or by any other process, justify the following observations:--

- (1) At every point on a sphere, $\rho_1 = \rho_2$.
- (ii) At every point on a cone except the vertex, either ρ_1 or ρ_2 is infinite.

GROUP B.

9. Determine the vector drawn from the origin to the centre of mass of a system of particles, whose (scalar) masses as well as positional vectors are assigned.

There are n particles of masses

$$a, a+b, a+2b, a+3b, \dots, a+(n-1)b$$

placed respectively at the terminals of the n vectors

$$\alpha$$
, $\alpha + \beta$, $\alpha + 2\beta$, $\alpha + 3\beta$, ..., $\alpha + (n-1)\beta$,

emanating from a common origin O. Prove that the vector joining O to the

mass-centre of the particles is of form

$$\alpha + c\beta$$
.

where c denotes the scalar

$$\frac{n-1}{3} \times \frac{3a + (2n-1)b}{2a + (n-1)b}$$
.

10. α , β , γ are known to be three vectors, drawn from a common origin and resolved along three orthogonal unit vectors (i, j, k) in the forms

$$a = il_1 + jm_1 + kn_1,$$

 $\beta = il_2 + jm_2 + kn_2,$
 $\gamma = il_3 + jm_3 + kn_3.$

Calculate the full analytical expression for the quaternionic product $\alpha\beta\gamma$, and note particularly the scalar and vector constituents.

Deduce or prove independently that the quaternion $\alpha\beta\gamma$ will reduce to a pure vector or to a pure scalar, according as α , β , γ are coplanar or mutually rectangular.

11. Resolve an arbitrary vector ρ along three non-coplanar vector (α, β, γ) , and also along

$$(V\beta\gamma, V\gamma\alpha, V\alpha\beta).$$

If the scalar equations

$$Sa\rho = S\beta\rho = S\gamma\rho = 1$$

hold simultaneously, prove that ρ is given by

$$\rho = \; \frac{V\beta\gamma + V\gamma\alpha + V\alpha\beta}{S\alpha\beta\gamma} \; .$$

Can you simplify this value of ρ on the hypothesis that α , β , γ are perpendicular unit vectors?

12. Define the terms angle, plane, and tensor with reference to a quaternion given in the form

$$q \equiv \frac{\beta}{a} ,$$

and compare these elements with those of a second quaternion, viz.,

$$p \equiv \frac{3\beta}{5\alpha} .$$

Given that the quaternions $\frac{\beta}{\alpha}$ and $\frac{\delta}{\gamma}$ are equal in all respects, prove the following consequences:

- (i) Each of the scalar expressions Saβγ, Sβγδ, Sγδα, Sδαβ is nil.
- (ii) The angle between α and β equals that between γ and δ .

$$(iii) Ta: T\beta = T\gamma: T\delta.$$

[N.B.—The symbols α , β , γ , δ denote vectors.]

FOURTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

You are required to attempt the FIFTH and EIGHTH questions; full marks may be obtained by answering these questions and any FOUR of the remaining questions.

1. State carefully what you understand by the *limit* of a function f(x) for x=a. Consider the question of the existence of

$$\lim_{x=0} \cos \frac{1}{x}$$
 and $\lim_{x=0} \frac{1}{2+e^{\frac{1}{x}}}$.

Trace the curve

$$y = \lim_{n \to \infty} \frac{x^{2n} \sin \frac{\pi x}{2} + x^2}{x^{2n} + 1}$$

and discuss whether y is continuous at the points x=+1.

2. Find the equation to the normal to a curve whose equation is given in polar co-ordinates.

Prove that the normal to the curve

$$\tau^* = a^2 \cos 2\theta$$

at the point $\theta = a$ meets a perpendicular normal at a joint whose distance from the origin is

$$2^{-1}.3\frac{1}{4}\cos\frac{1}{2}\left(2\alpha\pm\frac{\pi}{6}\right).$$

3. (i) Trace the curve

$$y^{\frac{1}{2}}(x-2a)+x^{\frac{1}{2}}=0$$
:

(ii) Find the area of the loop of the Conchoid of Nicomedes,

$$r = a \sec \theta + b$$
, $0 < a < b$.

4. Prove carefully the mean-value theorem :

$$f(b) - f(a) = (b-a)f'(c), a < c < b,$$

Examine the following cases for determining the validity of the theorem, in each case a being equal to -1 and b equal to 1:

(i)
$$f(x) = x\frac{1}{3}$$
, (ii) $f(x) = x\frac{4}{3}$, (iii) $f(x) - x \cos \frac{1}{x}$.

5. Prove that the values of a variable x which give to f(x) a maximum or minimum value are among the roots of the equation f(x)=0; and determine the further conditions necessary to distinguish the values of f(x), corresponding to the roots of f'(x)=0, as maxima, minima, or neither maxima nor minima.

Find the maxima and minima of the function

$$\frac{(x+2)^3}{(x+6)^3}.$$

(i) By considering the expression [f(x+a, y+b)-f(x+a, y)-f(x, y+b)+f(x, y)]/ab

obtain conditions in which

$$\frac{\partial}{\partial x} \left(\frac{\partial f}{\partial y} \right) \equiv \frac{\partial}{\partial y} \left(\frac{\partial f}{\partial x} \right)$$

(ii) If $\xi^2 = (x-a)^2 + y^2$, $\eta^2 = x^2 + (y-b)^2$, show that

$$\frac{\partial^4 u}{\partial x^2} + \frac{\partial^4 u}{\partial y^2} = \frac{\partial^2 u}{\partial \xi^2} + \frac{\partial^4 u}{\partial \eta^2} + \frac{\xi^2 + \eta^2 - a^4 - b^2}{\xi \eta} + \frac{\partial^4 u}{\partial \xi \partial \eta} + \frac{1}{\xi} \frac{\partial u}{\partial \xi} + \frac{1}{\eta} - \frac{\partial u}{\partial \eta}$$

7. Defining a definite integral as the limit of a sum, prove that integration is the reverse of differentiation in the case of every continuous function.

Show that the limit of the product

$$\left(1 + \frac{1}{n}\right) \left(1 + \frac{2}{n}\right)^{\frac{1}{2}} \left(1 + \frac{3}{n}\right)^{\frac{1}{3}} \dots$$

$$\left(1 + \frac{n-2}{n}\right)^{n-2} \left(1 + \frac{n-1}{n}\right)^{n-1} \left(1 + \frac{n}{n}\right)^{\frac{1}{n}}$$

when n is increased indefinitely is $e^{n^2/12}$

8. Integrate any three of the following:

$$\frac{x}{x^5+1}$$
 $x \sin^4 x \cos^4 x$, $\frac{1}{4+5\cos x}$, $\frac{1}{\sin^6 x}$, $\frac{\log (\log x)}{x}$.

9. Evaluate the following, m and n being positive integers:

$$\int_{0}^{\frac{\pi}{2}} \cos^{\pi}\theta \sin^{\pi}\theta d\theta, \int_{0}^{1} \frac{(1-x)^{\frac{n}{2}-1}}{(x^{\frac{n}{2}}-2x+2)^{\frac{n}{2}}} dx, \int_{0}^{\frac{\pi}{2}}\theta \sin^{3}\theta d\theta.$$

10. (i) Find a sine series for values of x between 0 and represent x^2 from x=0 to $x=\frac{\pi}{3}$, zero from $x=\frac{\pi}{3}$ to $x=\frac{2\pi}{3}$,

$$(\pi - x)^2$$
 from $x = \frac{2\pi}{3}$ to $x = \pi$.

(ii) Solve
$$x^2 - \frac{d^2y}{dx^2} - 2y = x.$$

Solve any two of the following differential equations:

(i)
$$(1-x^3) - \frac{dy}{dx} + x^2y = x^3(1-x^3)$$
.

(ii)
$$\frac{d^2y}{dx^2} + 2 \frac{dy}{dx} - 3y = e^x.$$

(iii)
$$\frac{d^3x}{dt^2} + \mu^2x = \cos nt.$$

- 12. (i) Find all the curves in which the radius of curvature is proportional to the radius vector.
 - (ii) Prove that the ellipses

$$b^2x^2 + a^2y^2 = a^2b^2$$

and

$$a^2x^2 \sec^4 a + b^2y^2 \csc^4 a = (a^2 - b^2)^2$$

are so related that the envelope of the second for different values of a is the evolute of the first.

FIFTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Six questions may be attempted, three from each group.

GROUP A.

1. If all the forces in a coplanar system are rotated about their points of application through the same angle in their own plane, prove that their resultant always passes through a fixed point, and determine the co-ordinates of that point.

If a body be in a position of equilibrium under the action of a

system of coplanar forces whose magnitudes and directions are given, show that the equilibrium is stable or unstable according as the Virial of the system is positive or negative in the position of equilibrium.

2. Find in Cartesian co-ordinates the equation to the curve in which a

heavy uniform string hangs when suspended from two points.

Four pegs are placed at the corners of a rectangle ABCD, AB being horizontal and of length 2a, BC being vertical and of length b; over them an endless uniform string is hung, forming two catenaries between A and B. and C and D. If the tangents at A and D make angles α and β with the horizontal, prove that

$$\cos \alpha \log \cot \left(\begin{array}{c} \pi & -\alpha \\ 4 & -2 \end{array} \right) \quad \cos \beta \log \cot \left(\begin{array}{c} \pi & -\beta \\ 4 & 2 \end{array} \right) = b.$$

3. A flat heavy circular disk, the weight of which is supposed to be equally distributed over its area, lies on a rough inclined plane and can turn about a pin in its circumference, show that it will rest in any pasition if

$$32\mu > 9\pi \tan i$$
.

where i is the inclination of the plane to the horizon.

4. Find the centre of gravity of (i) the area bounded by the axis of y. the cycloid

$$x = a (\theta + \sin \theta)$$

$$y = a (1 - \cos \theta)$$

and its base; and (ii) the area enclosed between $y^* = ax$ and $x^* = by$.

5. Enunciate the Principle of Virtual Work; and deduce the equations of equilibrium of a body acted on by a system of coplanar forces, viz.

$$\exists X=0, \ \exists Y=0 \text{ and } \exists (xY-yX)=0.$$

Find, by Virtual Work, the position of equilibrium of a straight uniform heavy rod of length 2a resting against a smooth vertical wall and over a smooth peg at a distance c from the wall.

GROUP B.

6. Deduce expressions for the radial and cross-radial acceleration of s

particle moving on a plane.

Find (i) the differential equation of the path of the particle if the cross-radial acceleration vanishes at every point of the path and the radial acceleration is a function of the position of the particle; and (ii) the acceleration of the particle when it describes an equilateral hyperbola under a force from the centre.

If m be the mean anomaly of a planet, ϕ its eccentric anomaly. and e the eccentricity of its orbit, prove that

$$m = \phi - e \sin \phi$$
.

Prove that the time average of the kinetic energy of a planet is equal to the value of the kinetic energy of the planet at the end of the minor axis of its orbit.

8. Find the motion of a heavy particle down a rough cycloid whose axis is vertical and vertex lowest.

If the particle starts from rest at the cusp of the cycloid and comes to rest at the vertex in the above case, show that

$$\mu = e^{-\mu \pi/2}$$
.

9. Enunciate the Principle of Energy, and verify it for a particle

moving on a smooth plane curve under external forces.

A particle falls from rest at infinity towards the earth; show that its velocity on reaching the surface of the earth is the same as it would have acquired in falling with constant acceleration g through a distance equal to the earth's radius.

Several heavy particles are projected in different directions in vacuo from a given point of earth's surface, the magnitule of the velocities of projection being V. Prove that (i) at any particular instant the particles will lie on a sphere, and (ii) they can never proceed beyond a certain paraboloid of revolution of latus rectum $2V^2/g$.

[g is supposed to be constant at all positions of the projectiles.]

SIXTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Six questions may be attempted, THREE from each group.

GROUP A.

Prove that the surfaces of equal density and the surfaces of equal pressure are coincident in any liquid in equilibrium under a conservative

system of forces.

- A thin uniform metallic spherical shell is filled with water. A small circular part is cut out at a point below the top of the shell and fixed to it at the highest point of the aperture by a hinge. If the shell and the water have equal weights, show that no water can escape unless the angle subtended at the centre of the aperture and the top of the shell at its centre be greater than cos-1 3.
- 2. Define centre of pressure, and find the centre of pressure of a triangular area whose base is on the free surface of a homogeneous liquid. How will this centre be altered if the area be rotated about the base?

A masonry wall, the vertical section of which is a right-angled

triangle with the right angle at the horizontal bottom, separates water levels on the vertical and the slant side. Find the resultant pressure and centre of pressure on unit length of the wall. How will this centre change if the level on the slant side rises?

3. Two equal and similar rods AB, BC, fixed at an angle a at B float with this point outside in a liquid of twice the specific gravity of the rods. If the bisector of the angle between the rods makes an angle θ with the borizon show that

$$\cos 2\theta + \sec \alpha = 2$$
.

4. Obtain the law of variation of density with height of a gaseous atmosphere at constant temperature and in equilibrium under gravity.

A tumbler made out of thin sheet metal of total volume v and specific weight σ' is forced down with the opening downwards in a liquid of

specific weight
$$\sigma$$
. Show that after a depth $h = \left\{ \frac{V\sigma}{v(\sigma' - \sigma)} - 1 \right\}$

below the surface of the liquid has been reached by the top of the tumbler equilibrium is to be maintained by a vertical pull upwards, V being the volume of the interior of the tumbler supposed large compared to v and hthe height of the barometer of the liquid at its surface.

5. If a body of density σ be weighed on a Nicholson's hydrometer in air of density s by means of weights of density B, show that the apparent weight w of the body is to be corrected for the density of the air by

$$W_B^s \frac{B-\sigma}{\sigma-s}$$
.

Define the metacentre of a floating body, and explain its importance in the theory of its stability.

GROUP B.

6. What are the usual co-ordinates for locating the position of a heavenly body and represent them on the celestial sphere? State which of these co-ordinates are fixed and which variable for a star and the sun in their diurnal motions.

Show that the apparent diurnal path of a star projected on the plane of the horizon at latitude ϕ is an ellipse of eccentricity $\cos \phi$.

Explain clearly the causes of the seasons.

Explain, with the help of diagrams, how the length of the day at a particular station on a given date can be calculated. Where is the length constant throughout all the year?

Enunciate Kepler's laws. How can they be verified? The interval between two successive conjunctions of Mercury is

115.9 days, and that between two successive oppositions of Saturn is 1028.6 days. Calculate the ratio of the distance of Mercury and Saturn from the sun.

- 9. What is aberration of a star, and how would you represent it on the celestial sphere? Describe and explain its effect on the apparent position of the star.
 - 10. Write a short essay on any one of the following:—
 - (i) Parallax of heavenly bodies.
 - Eclipses of the Sun and the Moon. (ii)
 - (iii) The transit instrument.

MATHEMATICS—PASS

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FIRST PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

You are not permitted to attempt more than seven questions which carry full marks, and not more than FOUR from the same group.

All the questions are of equal value.

GROUP A.

1. (i) If $A + B + C = 180^{\circ}$, prove that

$$\cos A + \cos B + \cos C = 1 + 4 \sin \frac{A}{2} \sin \frac{B}{2} \sin \frac{C}{2}.$$

- (11) Express $\cos 5\theta$ in terms of $\cos \theta$.
- 2. (i) If r, r_1 , r_2 , r_3 be the radii of the inscribed and escribed circles o triangle, show that

$$\frac{1}{r} = \frac{1}{r_1} + \frac{1}{r_2} + \frac{1}{r^3}.$$

(ii) Prove that in any triangle, the area of the inscribed circle us to the area of the triangle as π is to

$$\cot \frac{A}{2} \cot \frac{B}{2} \cot \frac{C}{2}$$
.

3. Solve:

(i)
$$\tan^{-1}\frac{1}{8} + \tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{7} + \tan^{-1}x = \frac{\pi}{4}$$
;

(ii) $2 \sin^2 x + \sin^2 2x = 2$.

- 4. (i) Find the sum of the sines of a series of angles which are in A.P.
 - (ii) Find the sum of n terms of the series

$$\sin^3 \alpha + \sin^3(\alpha + \beta) + \sin^3(\alpha + 2\beta) + \dots$$

- 5. (i) Prove De Moivre's Theorem for an integral index.
 - (ii) Find all the values of

$$(1-i)\frac{1}{7}$$
.

3. (i) Expand cos

 θ in ascending powers of θ .

(ii) Obtain an expansion of

 θ in powers of tan θ .

7. (i) Given $\sin x = n \sin x$

(x + a), obtain an expansion of x in powers of n.

(ii) Reduce cos

$$(\theta + \phi i)$$
 to the form of $\alpha + \beta i$.

GROUP B.

- 1. (i) Show how to transform from polar co-ordinates to rectangular co-ordinates and vice versu.
 - (ii) Transform to Cartesian co-ordinates the equation

$$\nu (\cos 3\theta + \sin 3\theta) = 5k \sin \theta \cos \theta$$
.

2. (i) Show that any equation of the first degree in x and y always represents a straight line.

(ii) Find the equation to the straight line drawn at right angles to the straight line.

$$\frac{x}{a} - \frac{y}{b} = 1$$

through the point where it meets the axis of x.

3. (t) Find the angle between the straight lines given by

$$ax^2 + 2hxy + by^2 = 0.$$

(ii) Find the angle between the lines joining the origin to the points common to

$$3x^2 + 5xy - 3y^2 + 2x + 3y = 0,$$

and

$$3x - 2y = 1$$
.

4. (i) Find the equation of the circle which is described on the line joining the points (x_1, y_1) and (x_2, y_2) as diameter.

(ii) Find the equation of the circle which touches the axes at (0, 1) and (1, 0).

5. (i) Obtain the equation of the normal to the parabola

$$y^2 = 4ax$$
 in the form

$$y + mx = 2am + am^3$$
.

- (ii) Find the equation to the chord of a parabola which is bisected at the point (h, k).
 - 6. (i) Find the equation of the line joining two points on the ellipse

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1,$$

whose eccentric angles are given.

(ii) Find the condition that (x', y') and (x'', y'') may be the extremities of a pair of conjugate diameters of the ellipse

$$\frac{x^4}{a^2} + \frac{y^4}{b^2} = 1.$$

7. (i) Show that the area of the parallelogram formed by the tangents at the ends of conjugate diameters of the hyperbola

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

is constant.

(ii) Show that the portion of a tangent to a hyperbola intercepted between the asymptotes is bisected at the point of contact.

SECOND PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Seven questions carry full marks, of which three must be from GROUP A and FOUR from GROUP B.

GROUP A.

- 1. (i) Define the following terms:—variable, dependent variable, infinitesimal, and limiting value.

 (ii) If the area of a circle increase at a uniform rate show that
- the rate of increase of the perimeter varies inversely as the radius.
 - 2. Find $\frac{dy}{dy}$ when
 - (i) $ax^2 + 2hxy + by^2 + 2qx + 2fy + c = 0$;
 - (ii) $y = a (1 \cos t)$, $x = a (t + \sin t)$:
 - (iii) $u = (\sin x)^x$.
 - 3. If $y = \tan (m \tan^{-1} x)$, show that

$$(1+x^2)\frac{dy}{dx}=m(1+y^2),$$

and prove that the first three terms in the Maclaurin series for u are

$$mx + m(m^2-1)\frac{x^3}{2} + m(m^2-1)(2m^2-3)\frac{x^3}{2.K}$$

4. (i) Prove that

$$\tan \phi = \frac{x\frac{dy}{dx} - y}{x + y\frac{dy}{dx}},$$

is the angle which the tangent to a curve makes with the radius vector drawn from the origin.

- (ii) If $\lim_{x\to 0} \frac{\sin 2x + a \sin x}{x^2}$ be finite, find the value of a and the limit.
- 5. Find the pedal equation of the parabola $y^2 = 4a(x + a)$.

Show that the chord of curvature through the facus of the parabola is four times the focal distance of the point.

GROUP B.

6. If $\phi(x) + \frac{d}{dx} \{ \psi(x) \}$, prove that

$$\lim_{h=0} h \left\{ \phi(a) + \phi(a+h) + \phi(a+2h) + \dots + \phi(b) \right\} = \psi(b) - \psi(a).$$

Deduce that

$$\operatorname{Lim}_{n=n} \left\{ \frac{1}{n} + \frac{1}{n+1} + \frac{1}{n+2} + \dots + \frac{1}{n+n-1} \right\} = \log 2.$$

7. Integrate

(i)
$$\frac{1}{(x^2+a^2)(x^2+b^2)}$$
; (ii) $\frac{\cos 2x}{\cos x}$; (iii) $\frac{1}{\sqrt{x^2+x-2}}$.

8. Show that

(i)
$$\int_{a}^{b} \frac{\log x}{x} dx = \frac{1}{2} \log \left(\frac{b}{a} \right) \log (ab);$$

(ii)
$$\int_{0}^{a} \sin^{-1} \frac{2t}{1+t^{3}} dt = 2a \tan^{-1} a - \log (1+a^{3}).$$

- 9. Find the intrinsic equation of the curve for which the length of the arc measured from the origin varies as the square-root of the ordinate. Also obtain the Cartesian co-ordinates of any point on the curve in terms of any parameter.
 - 10. If s be the length of the curve

$$r = a \tanh \frac{\theta}{2}$$

between the origin and $\theta = 2\pi$, and A the area between the same points, show that A = a $(s - a\pi)$.

11. (i) Prove that if the angle between the tangent and the radius vector is one-half the vectorial angle θ , the curve is the cardioid

$$r = a(1 - \cos \theta)$$
.

- (ii) Prove that if the subnormal bears a constant ratio to the abscissa, the curve is a conic. Determine the particular conic which passes through (1, 1).
 - 12. Solve:

(i)
$$\frac{d^{n}y}{dx^{2}} - 7\frac{dy}{dx} + 12y = 0$$
;

(ii)
$$(1-x^2)\frac{dy}{dx}-xy=1$$
;

(iii)
$$(x^3-y^3)\frac{dy}{dx}=2xy.$$

THIRD PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Any SIX questions carry full marks.

1. (i) Define—'perfect fluid,' 'density,' 'specific gravity,' 'fluid pressure at a point.'

(ii) Describe Bramah's hydraulic press, enunciating the hydrostatic principle which is utilized in it. Is it practicable to multiply the

effort indefinitely?

- 2. (i) A closed hollow vessel is in the shape of a right circular cone with a base which is horizontal and downwards: water is poured into it through a small hole at the vertex till the vessel is full. Find the pressure at any point of the base and show that the total pressure on the base is three times the weight of the water contained, if the atmospheric pressure be neglected.
- (ii) If a parallelogram be immersed in any manner in a homogeneous liquid, prove that the sum of the pressures at the extremities of each diagonal is the same.
- 3. (i) If a surface (which is such that no vertical line cuts it in more than one point) be in contact with fluid at rest under gravity, show that the resultant vertical thrust is equal to the superincumbent fluid and acts through
- the centre of gravity of the superincumbent fluid.

 (ii) A right circular cylinder is just immersed in water with its axis horizontal. Compare the vertical thrusts on the two parts of the curved surface into which it is divided by the horizontal plane through the axis.

(i) Write down the conditions of equilibrium of a body floating

under the action of gravity alone.

- (ii) A body is weighed, by means of a spring balance, in air and in water and its apparent weights are found to be W1 and W2 respectively. Find its true weight if the specific gravity of air be s.
- 5. (i) Establish the relation $pV \propto T$ (for a gas) where T is the ubsolute temperature.
- (ii) The constants κ_1 and κ_2 denote the values of κ in the formula $p = \kappa p$ for twe gases. Given masses m_1 and m_2 of the first and the second gas are mixed at the same temperature. Prove that the value of the constant & for the mixture is

$$\frac{m_1\kappa_1+m_2\kappa_2}{m_1+m_2}.$$

6. How would you find the specific gravity of a solid which is lighter than water with the help of a hydrostatic balance? How would you proceed

if the solid melts in or reacts chemically with water?

7. (i) Define— celestial meridian, 'prime vertical,' 'celestial latitude of a star,' 'hour angle of a star,' 'solstitial colure.'

(ii) If a certain star cross the meridian at 11 o'clock p.m. to-night,

at what o'clock will it cross the meridian (1) to-morrow night, (2) 15 days hence, assuming the sun's change of R.A. to be uniform.

(iii) Show that the altitude of the celestral pole at any place is

equal to the latitude of the place.

(iv) At what part of the earth would a body have no Jeviation towards the east when let drop from a height? Give reasons for your answer.

8 (i) Given the zenith distances of a circumpolar star at its upper and lower transits, obtain formulae for the latitude of the place and the star's declination.

If the star in one of its transits souths, what change would you suggest in your formulae?

(ii) Find the latitude of a place where the greatest elevation of the

sun above the horizon at midsummer is 76° 42'.

9. (i) Prove that the refraction of a heavenly body, the temperature and pressure being constant, varies as the tangent of the apparent zenith distance. Does the formula hold at the horizon or near the horizon? Give reasons for your answer.

(ii) Attempt an explanation of the oval shapes of the sun and

moon when near the horizon.

10. What is 'twilight'? What is its cause? Prove that it depends on the latitude of the place and the declination of the sun. How does the duration of twilight at a given place after with the seasons of the year?

Show that if

$l + \delta = \text{or} > 72^{\circ}$ twilight lasts all night.

11. What is the 'precession of the equinoxes'? Explain its causes. What would be the effect of a uniform precession on the celestial pole? Is the precession uniform? Who first discovered its true nature?

12. (i) What is the equation of time? What is it due to? Show

that it vanishes four times a year.

(ii) Given mean time=3 h. 20 m. 50 s. p.m. when the right ascension of the mean sun at mean noon is 16 h. 32 m. 9 s., find sidereal time.

PHYSICS—HONOURS

THEORETICAL

FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Not more than three questions to be attempted from each group.

All questions are of equal value.

GROUP A.

1. Explain the principle by which complex waves can be resolved into simple harmonic motions. A string is plucked aside at its middle point and released. Find an expression for the different harmonic vibrations into which its motion can be resolved.

2. Show that in the case of a reversible pendulum the following relation holds :-

$$\frac{4\pi^3}{g} = \frac{T_1^2 + T_2^2}{2(h_1 + h_2)} + \frac{T_1^3 - T_2^3}{2(h_1 - h_2)},$$

where g, T_1 , T_2 , h_1 , h_2 , have their usual significance. State clearly how g can be determined to a high degree of precision by means of such a pendulum.

3. Express Young's modulus and Poisson's ratio for an isotropic solid

in terms of volume, elasticity and rigidity.

Give an experimental method to determine any one of the above coefficients when the solid is a thick circular rod.

4. Write a note on the nature of capillary forces.

Deduce an expression for the ascent of liquid placed between two parallel plates, and show in what respects it differs from the ascent of the same liquid in a capillary tube.

5. Show that the volume of a liquid passing across any cross section

of a pipe of diameter d in unit time is

$$\frac{\pi}{128} \cdot \frac{d^4}{\eta} \cdot \frac{P_1 - P_2}{l}$$

where P_1 , P_2 are the pressures at the ends of the pipe, l the length of the pipe, and η the coefficient of viscosity of the liquid.

What is the effect of temperature on the viscosity of liquids and gases?

GROUP B.

6. Give the theory underlying the production of dust figures in Kundt's tube, stating some of the precautions that are necessary for the success of the experiment. State how this method has been utilized for the determination of one of the physical constants of gases.

7. Give examples of sound vibrations maintained by periodic communication of heat. State clearly at what phase the heat supply ought to be

communicated to the vibrating system.

Discuss the modes of vibration of a rectangular plate supported at

its centre.

The vibration microscope has been used to investigate the form of vibrations of strings. State clearly how the observed figures are actually interpreted.

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Six questions to be attenuited.

The questions are of equal value.

1. Give a short account of the different methods used in the measurement of low temperatures.

2. How would you experimentally determine the specific heat of a gas

at constant volume?

3. Describe the method of determining the specific heat of a liquid by the method of cooling, and justify the assumptions on which the method is based.

4. Describe any experimental plant for producing liquid air. Write notes on any point of theoretical interest in the working of the machine

you describe.

5. Deduce from the kinetic theory an expression of the specific heat of a non-atomic gas at constant pressure. Is there any theoretical basis for assuming that the molar heat of a gas will generally increase with the complexity of the molecule?

6. Prove that all substances which expand on solidification will have

their freezing-points lowered by an increase of pressure.

Calculate the lowering of the freezing-point of water per atmosphere increase of pressure, taking the latent heat of ice to be 80, the specific volume of ice being 1.087, and that of water at 0°C. being unity.

7. Explain how it is possible to define an absolute temperature scale independent of any provider and approved the second provider at the contract of the second provider at the contract of the second provider at the contract of the second provider at the second provider

independent of any special property of any particular thermometric substance.

8. Define thermal conductivity.

The internal and external surfaces of a long hollow circular cylinder are kept at fixed temperatures T_1 and T_2 . Show that the quantity of heat which flows per second across a length l of the cylinder will be

$$Q = \frac{2\pi k l(T_1 - T_2)}{\log\left(\frac{r_2}{r_1}\right)},$$

where r_1 and r_2 are the internal and the external radii of the cylinder, and k the conductivity of the material.

9. How would you proceed to show that heat radiation can be regarded as invisible light waves of longer wave-lengths than red light?

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Not more than BIX questions to be attempted.

All questions are of equal value.

1. Write a critical note on the experimental determinations of the

velocity of light.

2. Explain the phenomena observed at the boundary of the shadow cast by a straight edge. Illustrate your answer by diagrams and state the source of light you would choose and its position in order that the effects may be most clearly observed.

3. Describe a modern astronomical refracting telescope, and explain with diagrams the purpose served by each of its component parts. What influence has the aperture of the instrument on its optical performance?

4. Deduce the law of refraction of light in passing from a denser to a rarer medium on the principles of the wave-theory, and examine the case of total reflection in some detail.

5. What are the Fraunhofer lines in the solar spectrum? Explain what they indicate regarding the physical and chemical constitution of the

6. The image of the sun reflected at the surface of a calm sheet of water is viewed by an observer who holds a Nicol's prism in front of his eye and rotates it about its axis. Describe what he would notice for different altitudes of the sun.

7. What is optical rotatory power? Give some illustrative remarks

regarding the phenomenon. How is it explained?

- 8. What are the common defects in vision? Explain fully how they are determined and corrected by optical aid.
- 9. Describe, in full detail, giving the theory, some practical application of interferometry in either science or the arts.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only six questions to be attempted.

All questions are of equal value.

- 1. A point charge e is placed at a distance r from the centre of a sphere of positive charge of constant volume density ρ and radius a. Find expressions for the force acting on the charge where (i) r > a, and i) r < a.
- 2. You are required in a certain experiment to measure a range of currents varying from 10⁻¹, amperes to 10³ amperes. State what different kinds of apparatus you would use, and explain why you choose them, and how they work.
- 3. Give a short account of the changes in resistances produced in substances under the action of (a) heat, (b) light, (c) magnetic field. Give some practical application of these effects. Indicate briefly how these effects can be accounted for.
 - 4. Describe a suspended coil galvanometer of the ballistic type.

A coil has 50 turns each of area 2 sq. cm.; and it gives a deflexion of a spot of light of 10 mm. per micro-ampere on a scale one metre from the scale. Find the couple required to twist the suspension through one radian. The coil moves in a uniform field of 2,000 C.G.S. units.

- 5. A condenser of capacity c is discharged through a coil of inductance L and resistance R. Discuss the condition under which the discharge is oscillatory. How can you experimentally show that such discharges give rise to electro-magnetic waves?
 - 6. Explain a method of determining the charge on the electron.
- 7. Define the terms 'intensity of a magnetic field,' 'permeability,' and 'ampere turns.' Calculate the intensity of the field at the central point of a solenoid of small diameter 100 cm. long, wound with 6,000 turns of wire and traversed by a current of 5 amperes.
- 8. Prove that in a circuit carrying alternating current the mean rate of the work can be expressed as $\frac{1}{2} E_0^* I_0 \cos \theta$, where E_0 , I_0 are the virtual volts and amperes and θ is the phase difference between the current and E.M.F.
- 9. What is the co-efficient of mutual induction? Describe some method by which it can be experimentally determined.

PHYSICS—PASS

(MR. RADHIKAMOHAN CHAUDHURI, M.A. ,, DWIJENDRAKUMAR MAJUMDAR, M.A. ,, Gangadhar Mukherjee, M.A.
,, Pramodcharan Sen, M.Sc.
,, Abinaschandra Saha, M.Sc.

AMARESCHANDRA CHAKRABARTI, M.Sc.

FIRST PASS PAPER

At least one question to be answered from each of the GROUPS A, B, and C, and not more than SIX in all.

Candidates are required to give their answers in their own words as far as practicable,

The questions are all of equal value.

1. Explain what is meant by (a) a field of force, and (b) potential. How can a field of force be mapped out from a knowledge of the distribution of potential in it? Give an account of the different kinds of potential with which you are familiar.

2. What is the gravitational constant, and how can it be experimentally determined? In what way is the gravitational force different from the other

kinds of force which act between material bodies?

3. A flat disk is drawn through a liquid with its surface (a) perpendicular, and (b) parallel to its direction of motion. Discuss the nature of the resistances offered to the motion of the disk in the two cases.

Describe a method of measuring the coefficient of viscosity of a

liquid.

B

4. In a mercury thermometer, as well as in a constant-pressure air thermometer, temperature is measured by the change in volume of the indicating substance.

Explain why for all standard measurements a gas thermometer is always preferred. Describe Callendar's form of constant-pressure air

thermometer.

5. What are isothermal and adiabatic changes, and how can such changes be brought about in a given volume of gas? Describe some adiabatic effects in gases, giving wherever possible the quantitative relations involved.

6. Give an account of Andrews's experiments with carbonic acid gas. Describe some methods of liquefying gases which are based on the results

deduced from Andrews's experiments.

7. Analyse the essential parts of a heat engine. Explain with the help of diagrams the workings of (a) a steam engine, and (b) an internal combustion engine, and show how they conform to the requirements of a heat engine.

C

8. Describe a method of measuring directly the velocity of light in a transparent medium. How has it been shown that this velocity depends upon the colour of the medium?

9. Describe with necessary diagrams the optical parts of an astronomical telescope which is fitted with a micrometer eyepiece. How can you

use it to measure angular distances between stars? In what respects does an opera glass differ from an astronomical telescope?

10. Light is supposed to be propagated as transverse waves through space. Give some evidences in support of this theory.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt not more than six questions. Question 4 is compulsory.

All questions are of equal value.

- 1. Explain with diagrams the nature of the vibrations of a tuning-fork. What special features make it a valuable instrument in the scientific study of sound?
- 2. What is it that enables us to distinguish the sounds of the different vowels when we hear them, and how do the differences arise?

3. Explain why sound travels faster and is heard at greater distances

in liquids and in solids than in gases.

4. A zinc and chromic acid primary cell gives about 2.25 volts. From this, calculate the rise of temperature produced when one gramme of zinc filings is stirred into 500 grammes of dilute sulphuric and chromic acids mixed. $(J=4.2\times10^7 \text{ ergs}, \text{ the C.G.S.})$ unit of electricity deposits 0.0001038 grammes of hydrogen, and the atomic weight of zinc is 65.4. The specific heat of the dilute acid may be taken as unity.)

5. Discuss in an elementary way the physical principles on which

the working of an ordinary electric motor is based.

6. Describe the general features of the earth's magnetic field, and

indicate briefly how they are studied.

7. Explain fully the purpose served by the bundle of iron wires which forms the core of an induction coil. Has the kind of iron used any influence on the working of the coil?

8. What is diamagnetism, and how is it observed and studied?

Mention some classes of substances known to be diamagnetic.

9. Describe some well-known form of electrometer, and explain how you would use it in practice.

CHEMISTRY—HONOURS

SIR P. C. RAY, KT., C.I.E., F.C.S. Paper-Setters—
(Pass and Honours.)

PROF. PRAPHULLACHANDRA MITTER, M.A., Ph.D., JNANENDRANATH MUKHERJEE, D.Sc.
DR. JNANENDRACHANDRA GHOSH, D.Sc.
MR. P. R. RAY, M.Sc.
PROF. H. K. SEN, M.A., D.Sc. THEORETICAL

Examiners— DR. PANCHANAN NIYOGI, M.A., Ph.D. PROF. JNANENDRANATH MUKHERJEE, D.Sc. (Honours.) MR. BARUNCHANDRA DATTA, M.A. DR. M. QUDRATI KHODA, D.Sc. (Lond.).

FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt FIVE questions only.

The questions are of equal value.

 Give a short account of the chemistry of the olefines.
 What do you understand by the hardening of fats and oils? Describe the process and discuss its economic importance.

3. How are the alkyl nitriles and iso-nitriles prepared? Discuss their

constitution.

- 4. How would you prepare the following:—(a) phenyl hydrazine, (b) phenolphthalein, (c) benzyl alcohol, (d) m-nitrotoluene, (e) glycine. (f) tertiary butyl alcohol?
- 5. How is ph'halimide prepared? Describe its use in the preparation of (a) alkylamines, (b) anthranilic acid.

6. Write a short essay on geometrical isomerism.
7. A substance A contains C = 24.2, H=4.0, and Cl=71.8 per cent., and has a vapour density of 49.5. When treated with aqueous alkali, A is converted into a second substance B, devoid of chlorine, and containing C=54.5 and H=9.1 per cent. Deduce the molecular formulas of A and B and also their structural formulas.

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only SIX questions are to be attempted.

The questions are of equal value.

1. Write a short essay on the atomic theory, indicating the changes that should be made in the old Daltonian conceptions in the light of modern knowledge.

2. It is stated that the properties of an element are dependent in a great measure on the different numerical values of valency which it exhibits in its compounds. Discuss this statement by citing as many illustrations as you possibly can.

3. Describe the general properties of the alkaline-earth elements.

Discuss the position of magnesium in this group.

- 4. Discuss the reasons which justify the following pairs of elements being placed in the same group of Mendeleef's table :-
 - (a) Sodium and copper.
 - (b) Sulphur and chromium.
 - (c) Chlorine and manganese.
 - 5. Write short notes on the following:-
 - (a) Eutectics and intermetallic compounds.
 - (b) Allotropy.
 - (c) Oxides and peroxides.
 - (d) Rusting of iron.

- 6. Give an account of the properties and constitution of the oxyacide of phosphorus.
 - 7. How would you prove that-
 - (a) potassium ferrocyanide contains iron;
 - (b) hydrofluosilicic acid contains silicon;
 - (c) potassium mercuri-iodide contains iodine;
 - (d) carbon dioxide contains carbon?
- 8. Under what circumstances do the following substances react, and what are the products formed? Give equations in each case:—
 - (a) potassium chlorate and iodine;
 - (b) potassium iodate and potassium iodide;
 - (c) carbon monoxide and steam;
 - (d) iron and nitric acid.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Not more than FIVE questions are to be attempted.

All questions carry equal marks.

1. Deduce from Van der Waal's equation the relationship for corresponding states. Discuss how far this relationship is in agreement with the observed behaviour of gases.

2. Deduce equations showing the relation between the saturation pressure of a pure liquid and (a) the temperature, (b) the concentration of

s non-volatile non-electrolyte dissolved in it.

The osmotic pressure of a cane-sugar solution containing 0.825 gm.-mol. of sugar per litre of solution is 26.62 atmospheres at 20°. Compare this figure with the value calculated on the assumption that the solution is an 'ideal' dilute one.

3. Deduce an equation showing the variation of the heat of a reaction,

where all the substances involved are solids, with temperature.

The heat of formation of dilute NaOH solution from NaOH and aq. is 111,810 cal.; that for HCl solution is 39,315 cal. The heat of neutralization of dilute NaOH by dilute HCl is 13,745 cal., and the heat of solution of NaCl in diluted solution is —1180 cal. Calculate the heat of formation of NaCl from its elements if the heat of formation of liquid water is 69,360 cal.-mol.

4. Find out the velocity of K° ion in aqueous solution at 18° under a potential gradient of 1 volt per cm. from the following data:—u, for KCl

at 18°=180. Transport number of Cl' in KCl=0.495.

- 5. Explain what is meant by a solution. How would you distinguish between a colloidal and a true solution? Give examples illustrating your answer.
- 6. Write a note on the allotropic modifications of sulphur. How are the points of transition from one form to another measured?

7. Describe fully two methods for determining the strength of a base.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only FIVE questions are to be attempted.

The questions are of equal value.

1. Give a short account of the methods employed for the quantitative separation of iron, chromium, and aluminium from one another and the qualitative separation of copper from cadmium. How would you detect the

minute traces of copper or iron present in a solution?

2. Explain what is meant by solubility product and give three illustrations of the application of this concept to the development of methods in

qualitative analysis.

The solubility of barium sulphate is 2.3×10⁻⁴ gm. in 100 c.c. of water. What is the percentage error involved in washing a precipitate of 0.200 gm. of barium sulphate with (a) a litre of water, (b) a litre of N/100 sulphuric acid?

(Ba=137, S=32, O=16.)

- 3. Name the important sources from which silver is obtained. Give an a count of the different methods for the extraction of silver from these sources. How would you prepare chemically pure silver from the commercial sample?
- 4. Describe briefly the various methods that are in use for the manufacture of nitric acid. How would you estimate the nitrogen-content of a sample of nitrate-nitrite mixture?
- 5. How are the following substances prepared and what are their uses:—(a) ultramarine, (b) methanol, (c) phthalic acid, (d) colloidal silver?

 6. Write short notes on the following:—(a) condensation, (b) Grignard's
- reagent, (c) mutarotation, (d) permutit. 7. Describe the manufacture of illuminating gas, giving a full account of the by-products obtained and their utilization. How would you detect presence of oxygen in illuminating gas?

CHEMISTRY—PASS

MR. KALIDAS MALLIK, M.A. Examiners—

(ARIDAS MARINA, M.A.)

(Br. Kiranchandra Mitra, M.A.)

(Compared Maridas Mukherjee, M.A.)

(Compared Maridas Mukherjee, M.A.)

(Compared Maridas Mitra, M.A.)

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FIRST PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable,

The figures in the margin indicate full marks.

Attempt six questions only, Question 8 being compulsory.

1. How would you obtain pure acetone from pyroligneous acid? How can it be prepared from starch? State the properties and uses of acetone.

2. How is ethyl iodide prepared? Write equations indicating 16 the action of the following reagents on the substance:-(a) aqueous potassium hydroxide;
(b) alcoholic potassium hydroxide;
(c) alcoholic ammonia;
(d) sodium; (e) zinc-copper couple. 3. Name the sources of formic acid. How is the anhydrous acid 16 prepared? In what way is the acid related to hydrocyanic acid? Give reasons for your answer.

4. How is aniline prepared on a large scale? State its uses. 16 Starting from aniline, how would you obtain (a) benzene, (b) phenol, and (c) mono-brom benzene? 5. Describe fully the action of chlorine on toluene under different 16 conditions, and state the uses of the products obtained. 6. Give an outline of the various methods which have been used 16 to liquefy gases. 7. Describe the preparations of a colloid. What are the properties of gelatine which characterize it as a colloid? What are the reasons 16 for distinguishing broadly between two classes of colloids? 8. An organic compound containing sulphur gave on analysis 20 the following result :-0.1536 gm. gave 0.2566 gm. CO, and 0.0525; m. H.O; 0.1445 gm e e 0. 139 gm, BaSO.

Determine its molecular formula.

(Ba = 137.)

Candidates are required to give their answers in their own words as far as practicable.

SECOND PASS PAPER.

All questions are of equal value.

Not more than six questions are to be attempted.

1. Discuss Mendeléeff's classification of elements in the light of the more fundamental discoveries made since its formulation.

2. Explain with illustrations what you understand by -(a)

number, (b) isotopes, (c) allotropy.

3. How are the following substances prepared: -(a) nickel carbonyl, (b) potassium bichromate, (c) barium peroxide, (d) stannic chloride?

4. Describe the Bessemer process for the manufacture of steel. How do you distinguish between wrought iron and steel?

5. Describe the preparation of the following substances in a pure condition :--iodine, hydrogen, mercury, gold.

6. Write a note on the methods which have been used in determining

stomic weights.

7. Describe with equations what happens when a current of hydrogen sulphide gas is passed through-

(a) a solution of sulphur dioxide:

(b) gaseous chlorine;

(c) a solution of ferric chloride;

(d) a solution of sodium arsenite.

8. (a) Explain why elementary substances are assumed to have zero heat contents. In what cases do we depart from this rule?

(b) The heat of neutralization of HNO, by NaOH is 13,680 cal. and of dichloracetic acid 14,830 cal. One equivalent of NaOH aq. is added to a mixture of one equivalent of HNO, and CHCL2COOH; the heat evolved is 13,960 cal. Calculate the relative strengths of the two acids.

PHYSIOLOGY—HONOURS

SIR NILRATAN SIRCAR, KT., M.A., M.D., LL.D., D.C.L. Paper-Setters(Pass and Honours.)

RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., Ph.D.
LT.-Col. A. C. MacGilchrist, I.M.S.
PROF. S. C. MAHALANOBIS, B.Sc., F.R.S.E.
MR. B. C. GHOSH, M.A., M.B., B.C.
DR. GIRINDRASEKHAR BOSE, D.Sc., M.B.

THEORETICAL.

DR. SUBODIICHANDRA MAHALANOBIS, B.Sc., Examiners— { F.R.S.E. RAI SATISCHANDRA BANERJEE, BAHADUR, L.M.S MR. NIBARANCHANDRA BHATTACHARYYA, M.A. DR. GIRINDRASEKHAR BOSE, D.Sc., M.B.

FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Try any THREE questions.

All questions are of equal value.

- 1. Write what you know about the response of the auricle to rapid stimulation.

2. Describe the mechanism of gaseous exchange in the lung.
3. Mention the distribution of ciliated epithelium in the human body, and describe the structure and function of ciliated cells. What explanations have been suggested for ciliary motion? Give diagrams.

4. Write notes on:—(a) caisson disease, (b) heart block, and

karyokinesis.

SECOND HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Not more than THREE questions are to be attempted.

The questions are of equal value.

- Discuss the theories of renal function.
 Give an account of nitrogen elimination.
- 3. Discuss the proteolyses that take place in the alimentary canal and liver.
 - 4. Write an account of the fat soluble vitamins.

THIRD HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer only FOUR questions.

The questions are of equal value.

1. Describe the development, structure, and functions of the pituitary body.

Give an account of the changes that occur in a nerve when a cons-

tant electric current is allowed to flow along it.
3. Discuss the formation of indol and phenol compounds in man and the manner of their elimination from the body.

4. Describe the experimental methods by which the seat of fatigue in a nerve-muscle preparation may be determined. Explain the cause of fatigue.

5. Discuss the mechanism of the maintenance of blood sugar level,

and its derangements.

FOURTH HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer only FOUR questions.

The questions are of equal value.

1. Describe the structure and functions of the cochlea.

2. Give an account of the connexions of Deiter's nucleus and explain the functions of the nucleus.

3. Describe the respective role of the various receptors which are con-

cerned in posture and equilibrium.

4. Describe the principal decussations of nerve fibres which occur in

the mid-brain.

5. Trace the paths of visual impulses from the retina to the cerebrum, and show the interrelations of the various nerve centres associated with vision.

PHYSIOLOGY—PASS

Mr. Manmathanath Banerjee, M.Sc.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

All questions are of equal value.

1. Describe the condition of asphyxia, stating the general causes that bring it about.

2. Discuss the significance of the respiratory quotient and its variations.
3. How is the venous flow kept up and adjusted?
4. Give a brief account of the events of the cardiac cycle.
5. What do you understand by true alkalinity? How is the reaction of blood maintained?

6. Mention the sources of nitrogen in the urine.7. How is the temperature of the human body kept constant?

SECOND PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

All questions are of equal value.

1. Give an account of the control of the flow of gastric juice.

Give a brief account of the autonomic nervous system.

3. Describe the main cerebral afferent paths in the central nervous system.

4. Describe the structure and functions of the retina.

- 5. Contrast the actions of the internal secretions of the pituitary and the suprarenal glands.
 - 6. Write in brief the results of vitamine deficiency.

7. Trace the origin and fate of amino-acids.

BOTANY—HONOURS

FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate your answers by neat sketches wherever necessary.

Answer any FIVE questions.

All questions carry equal marks.

1. Write short notes on any five of the following:—Haustoria, Sole-mostele, Hadrom, Phelloderm, Endosperm, Pseudocarpy, Parthenogenesis.

2. Give a general account of the modifications of leaves for the performance of special functions, illustrating your answer from Indian plants.

3. Give a brief resume of the views held regarding the origin of the

Angiosperms.

- 4. Give a general account of the characters and affinities of the Palmaceae. Mention the characters on which the subdivisions of the family are based and enumerate the most important economic plants belonging to
- Describe the range of floral structure in the Malvales, mentioning the principal families included in the order. Enumerate the most important economic plants belonging to these and give their geographical distribution.

6. Enumerate the principal dye-yielding plants of India. Assign these to their families, give their geographical distribution, and mention the

part or parts from which the dye-stuff is produced.

7. Mention the plant-geographical divisions of India which are included in Bengal, and give a short account of the types of vegetation found therein.

SECOND HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

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1. Either, Describe the structure of the sporocarp of Marsilea. and point out the homology of its parts to those of a common homosporous fern.

Or, Describe the structure of the stem of one of the higher ferns, briefly indicating the steps by which the stelar structure has been evolved from simpler types.

2. Either, Compare and contrast the prothallus of Equiscum

with that of a fern and Lycopodium.

Or, Describe the structure of the stem of any species of EITHER Lycopodium, or Selaginella.

3. Either, Describe the methods of vegetative reproduction and perennation in the Himalayan liverworts.

Or, Describe the structure of the sporogonium of Anthoceros, and discuss its importance in relation to the origin of the higher plants.

4. Either, Describe the mode of reproduction in the Zygomuycetes, with special reference to any type with which you may be familiar.

Or, Describe the chief forms of the fructification in the higher Basidiomycetes.

Either, Describe the chief characters of the Conjugatae and

point out the affinities of the group.

Or, Describe the life history of Dictyota, and briefly discuss its importance in connexion with the origin of the alternation of generations.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer only FIVE questions.

1. Give an account of the physiological factors that determine the arrangement of photosynthetic tissues in green plants.

2. Describe the various means of ventilation that occur in plant tissues,

and explain their physiological bearing.

3. Give an account of latex-forming structures, and explain the func-

tion of latex.

4. Describe fully the process of digestion that takes place in the germinating seed, and compare it with that obtaining in a carnivorous plant.

5. Give an account of movements of growth dependent on internal

causes.

6. Describe the characteristics of tropophytes.

7. Give an account of the physical properties of clay, and explain their importance to the fertility of the soil.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value.

Illustrate your answer by neat sketches wherever necessary.

Answer Question 1, and any FOUR other questions.

*1. Write a short essay on the xerophytic adaptations of plants, illus-

trating your answer by examples from the Indian flora.

2. Write short notes on any five of the following:—survival of the fittest, fluctuating variations, acquired characters, allelomorphs, genes, chromosomes, linkage.

3. Discuss in brief the importance of the study of heredity for the pro-

duction of improved varieties of cultivated plants.

4. Give a brief resume of the views held regarding the origin of Gymnosperms and their relationships to the Angiosperms.

5. Give a general account of the Gnotales, drawing particular attention to the characters which lead to this group being considered the most highly evolved among the Gymnosperins. Give a classified list of the Indian species belonging to this group.

6. Give a general account of the structure and affinities of the Cordaitaceae, mentioning the Indian species of the group and their geographical dis-

tribution.

7. Give a general account of the secondary growth in thickness of the Monocotyledons.

* Compulsory question.

Examiners— { Mr. Girijaprasanna Majumdar, M.Sc. , Satyasaran Sinha, B.Sc. (Illinois)

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Examples should be given from Indian plants as far as possible. Only Five questions to be attempted, each carrying equal marks.

1. Give an account of aerial modification of stem with examples.	20 20
2. What is a fruit? Describe the various ways the fruits open	ZU
to liberate the seeds.	
3. What is karyokinesis? Describe this phenomenon in connexion	20
with the growth of apical meristem of root tip.	
4. Describe the formation of bark in the woody dicotyledons	20
5. Compare the leaf anatomy of the pine with that of the India-	20
rubber tree.	
6. Compare the formation of the Cambium in the root with that	20
of the stem.	
7. Compare the following natural orders:—	20
 (a) Apocynacæ and Asclepiedaceæ. (b) Verbinaceæ and Labiatæ. (c) Gramineæ and Cyperaceæ. 	
8. Write a short account of the natural order Leguminosæ, and discuss the importance of the family from the economic point of view.	20
	

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer FIVE questions, of which Question 1 must be one.

1. Describe briefly the progress from isogamy to oogamy among	20
the thellophytes.	
2. Give a detailed account of the development of the sporophyte	20
of a fern.	
3. Either, Describe the progressive degeneration of sexuality in	20
Fungi. What is the probable cause of this phenomenon?	
Or, What is a facultative saprophyte? Illustrate your answer	20
with reference to the life history of a fungus you have studied.	
4. Describe the distribution of the assimilating and conducting	20
tissues in the bryophytes, and explain how they are adapted to land life	
5. What part does the floral form play in pollination? Give illus-	20
trations.	
6. Give an account of the adaptations of aquatic plants to their	20
Dabitat.	20
7. What is fermentation? What biological advantage does the	20
ermenting organism derive from it?	20
8. Write an essay on the relation between ants and plants.	20
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GEOLOGY

(Pass and Honours.)

Paper-Setters =

{ Mr. D. N. Wadia Dr. Cyril Fox, D.Sc. Prof. L. K. Mathur, S. K. Biswas, M.A.

THEORETICAL

(Honours.)

Examiners...

| Dr. A. H. Hiran, D.Sc. (Edin.) | Mr. Hemchandra Dasgupta, M.A., F.G.S. | Bhupendranath Maitra, M.A. | Saratlal Biswas, M.A. |

FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer three questions from Section A and three from SECTION B.

The figures in the margin indicate full marks.

SECTION A

1. Explain the following terms, giving neat sketches:—hanging 16 wall, ore shoot, saddle reef, and blind lode. 2. What is secondary enrichment? Explain fully the conditions 16 which favour the formation of a zone of secondary enrichment in a mineral vein. 3. Describe the nature and succession of saline residues formed 16 from the desiccation of sea-water. 4. Name the minerals which are known to occur as alluvial de-18 posits. Indicate briefly the procedure to be adopted in prospecting for alluvial gold along a broad valley.

SECTION B

5. Give the names and formulae of all the ore minerals of tin, 16 lead, zinc, and iorn from which the respective metals are extracted on a commercial scale. 6. Describe fully the physical and chemical characters which dis-16

tinguish the various members of the pyroxene group of minerals.

7. Enumerate the common twins observed in the felspars, and 16 state the twin axis or the twin plane and the plane of composition in

8. What are polarization colours? Explain their mode of formation and their relation to the birefringence of a mineral and the thickness of the mineral plate.

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer FIVE questions only.

The questions are of equal value.

- 1. Describe the processes that lead to the development of the gneissose structure. By what criteria is an orthogneiss distinguished from a paragneiss?
 - 2. Distinguish between-
 - (a) poikilitic and porphyritic textures;(b) endogenetic and exogenetic rocks;

(c) laccolith and batholith;

- (d) dynamic and static metamorphism.
- 3. Give an account of the distribution, mode of occurrence, and genesisof the laterite and the salt formations of India.

Write notes on:—dolomitization, metasomatism, eutectics. and

hybrid rocks.

5. Describe a scheme of classification of the igneous rocks, and indicate in that scheme the positions of the following rocks:—augitite, norite, tonalite, phonolite, and nordmarkite.

6. What do you understand by—(a) magmatic differentiation, and (b) reaction relation? Illustrate your answer by examples.

7. Give the characteristic features of the following rocks:-khondalite, charnockite, mica-peridotite, anorthosite, calciphyre, gondite agglomerate, arkose, fire-clay, and epidiorite.

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Any five questions out of these carry full marks.

1. Describe the chief elements of the fauna of the Productus limestone of the Salt Range, and draw your conclusions regarding the character of the life of the period.

Give an account of the Indian fossil Anthracotheroids.

3. Give an account of the geological history and the main lines of des-

cent of the fossil Indian Suina in the tertiary fresh-water formations.

4. Assign the following to their exact geological horizons, mentioning any notable rock or fossil contents of each:—Sripermatur beds, Chharat stage, Kamlial stage, agglomeratic slate series, Lameta beds, pale sandstone, Napeng beds.

5. Trace the leading genera and species of the Proboscidea from the earliest to recent times. Compare the history of the Indian proboscidea with those of other parts of the world.

- 6. Compare in detail the characters of the Talchir flora with those of the Jabalpur and Rajmahal floras from the different Gondawana provinces of India.
- Write notes on the following fossil genera, giving their geological horizon, range in time, and systematic position :- indoceras, teleoceras, lietriodom, belodon, telnatodon, redlichia, syringathyris, protoretepora, mastodonsaurus, radiolites, ptychodus.

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FOURTH HONOURS PAPER

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Candidates are required to give their answers in their own words as far as practicable.

Only FIVE questions to be answered.

The figures in the margin indicate full marks.

1. Discuss the distribution of land and sea during the Cretaceous 2
period in India.
2. Describe briefly the lower Gondwana strata of Peninsular 2
India.
3. State the type locality, geological horizon, and characteristic 20
fossils of the following strata:—Talchir series, Panchet series, Umaria
marine beds, Upper Plateau limestone, and Napeng stage.
4. Give a short account either of the Ceratite beds of the Punjab 20
Salt Range, or of the Cretaceous rocks of Assam.
5. Describe briefly the Cambrian strata of the Punjab Salt Range. 20
6. Give a short account of the Eocene strata of Assam, Burma, 20
and North-Western India.
7. Name the horizons which are characterized by the following 20
fossils:-rhacopteris inacquilatera, syringothyris cuspidata, ceratites
subrobustus, ampullina birmanica, eurydesma globosum, pteria contorta,
gangamopteris cyclopteroides, assilina granulosa, brachyops laticeps,
and palissya conferta. State whether they are animals or plants in
each case.
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M- II D MA FICE
Examiners MR. HEMCHANDRA DASGUPTA, M.A., F.G.S.

Examiners— MR. HEMCHANDRA DASGUPTA, M.A., F.G.S. DR. MANMOHAN CHATTERJEE, B.Sc., Ph.D. FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

own words as far as practicable.	
Try six questions only.	
The figures in the margin indicate full marks.	
1. Give a complete drawing with crystal axes and Miller's notations of faces, of any natural crystal with which you are familiar.	16
2. Give an account of minerals belonging to the felspar group.	16
3. Describe completely the appearance of olivine gabbro in hand	16
specimens and under the microscope. In what important respects	
does it differ form granite?	
4. Explain, with neat sketches, the meanings of the following	16
terms:-crystallographic axes, ether axes or axes of optical elasticity,	
and optic axes.	
5. Give the chemical and physical properties of the following	16
minerals and their commercial uses, if any :-chromite, topaz, ser-	
pentine, monazite and aquamarine.	
6. Write explanatory notes on the following:—sill, ophitic tex-	20
ture, columnar jointing, pegmatite and diatom coze.	
7. Describe the features of sedimentary rocks which give evidence	16

of (a) glacial, (b) shallow water, and (c) desert conditions of formation respectively. Give examples.

8. Describe the effect of weathering on the major rock-forming minerals, and indicate the nature of the secondary products which are formed.

SECOND PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Only FIVE questions to be answered,

All questions are of equal value.

1. Discuss briefly the origin of earthquakes, with special reference to seismic tracts in India.

2. Name the volcanic rocks of India and Burma which are younger than the Trias. State those which have been erupted from fissures and

those which were discharged from volcanoes.

3. Explain, with sketches, what you understand by a syncline, a horst, a rift valley, a fault an unconformity an anticlinorium, an over-

thrust, an overlap, imbricated structure, and klippen.
4. Define clearly what you mean by a conglomerate, a breccia, an agglomerate, and shingle when referring to rocks. State their mode of formation.

5. State the geological horizons (in India) to which the following fos-5. State the geological horizons (in India) to which the following iossils belong:—conularia warthii, syringothyris cuspidata, schwagerina blanfordi, daomella lommeli, brachyops laticeps, cordaites hislopi, palyssia comferta, cardita beaumonti, baculites vagina, and trigonia costata.

6. Discuss very briefly the faunistic and floral relationships of each of the animal and plant fossils mentioned in Question 5.

7. State where the following formations occur in India and Burma:—Parsora stage, Neobolus beds. Napeng beds, Panchet series, plateau limestone. Namuan beds, agglomeratic clates. Kaimur series, iron ore series.

stone, Namyau beds, agglomeratic slates, Kaimur series, iron ore series. and Dalma trap. State the age of these rock formations.

ZOOLOGY

(Pass and Honours.)

THEORETICAL

(Honours.)

Examiners...

Lt.-Col. R. B. S. Sewell, M.A., I.M.S., F.Z.S., F.L.S.

DR. HIMADRIKUMAR MOOKERJEE, D.Sc., BAINI PRASAD, D.Sc.
PROF. B. K. DAS, D.Sc.

FIRST HONOURS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Not more than FOUR questions are to be attempted.

All questions carry equal marks.

1. Give a detailed account of the phenomenon of syngamy among the Protozoa.

With reference to the Platyhelminthes and Nemathelminthes only, 2. discuss the effects of a parasitic mode of life on the parasites themselves.

3. Discuss the relative value of the criteria employed in classifying sponges.

4. Describe the formation and relationships of the body spaces in any Echinoderm with which you are acquainted.

5. Give a comparative account of the more important forms of nematocysts, and the role they play, in the Colenterata.

6. Write a short account of the ecology of the Mollusca.7. Give a critical review of the views on the segmentation of

arthropod head.

8. Do you regard the Archiannelida, Chaetopoda, Gephyrea, and Hirudinea as constituting a monophyletic phylum? Give reasons in support of your view.

SECOND HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only FOUR questions to be attempted.

The questions are of equal value.

1. Describe briefly the characteristics of Protochordae. Discuss their chordate affinities.

2. Discuss the characters and affinities of the Dipnoi.

3. How are the lizards and snakes related to each other? Discuss the question fully.

4. What are the distinguishing characters of the carinate birds?5. What structural modifications are found in the organization of the Cetacea and Sirenia with reference to their aquatic habitats?

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only FIVE questions are to be attempted.

Illustrate with sketches, wherever possible.

All questions carry equal marks.

1. Give a short general account of the process of cell-division known as Mitosla.

 Write a detailed account of Chromosomes.
 What is connective tissue? In what different forms may it occur? State the distinguishing features of each form. 4. Discuss the different ways in which a gastrula may be formed.
5. Discuss the influence of yolk on segmentation

5. Discuss the influence of yolk on segmentation.
6. Describe the development of the embryonic membranes in the development of the chick. State their function.

7. Write notes on-Mitochondria, Primitive Streak, Blastocoel, Splanchnopleure. Mesonephros.

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Write an essay on one of the following subjects:-

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(a) The relationships of the Protozoa and the Metazoa; and the steps by which the one may have been derived from the other.

(b) The effect of sexual selection in the evolution of species.

(c) Protective coloration and mimicry.

(d) The origin of parasitism in the animal kingdom.

Examiners— { DR. EKENDRANATH GHOSH, M.Sc., M.D. MR. DURGADAS MUKHERJEE, M.Sc.

FIRST PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Not more than FIVE questions should be attempted.

All questions carry equal marks.

1. Describe and contrast the external characters of a starfish, a sea urchin, a holothurian and a crinoid. To what extent are the differences observed due to mode of life?

2. Discuss the comparative anatomy of the foot in the Mollusca.

3. Compare and contrast the life-histories of the malarial parasite and Monocystis.

 Give an account of the excretory organs of the Arthropoda.
 Give a detailed account of the life-history of any nematode worm. What are the principal anatomical characters that distinguish a nematode from an annelid worm?

6. Describe examples of the principal types of adaptation of the mouth-

parts of insects to diet.

7. What are the characteristics of the coelom? Describe the condition of this space in the principal groups of invertebrates.

8. Compare the life-history of a zoophyte producing free medusae with the life-history of one of the Scyphomedusae, such as Aurelia.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Attempt FIVE questions only.

The figures in the margin indicate full marks.

EXPERIMENTAL PSYCHOLOGY

(Pass and Honours.)

Paper-Setters—

Sir Nilratan Sircar, Kt., M.A., M.D.,
LL.D., D.C.L.

Dr. Girindrasekhar Bose, D.Sc., M.B.

Prof. J. R. Banerjea, M.A., B.L.

Mr. Haridas Bhattacharyya, M.A.

Prof. S. C. Mahalanobis, B.Sc., F.R.S.E.

Mr. Kiranchandra Mukherjee

(Pass)

Examiners— { Mr. HARIDAS BHATTACHARYYA, M.A. (Cal.), Ph.D.

FIRST PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Answer any FIVE questions.

Questions are of equal value.

1. Characterize the nature of human consciousness, bringing out specially its unity, continuity, and teleological character.

2. Either, As opposed to feelings, sensations are said to reveal the external world. Explain clearly by what characteristics sensations give that knowledge.

Or, Distinguish perception, illusion and hallucination, with concrete illustrations. Illustrate and explain three principal geometrical illusions.

3. Describe the methods by which the eyes understand and measure

depth.

What are the comparative advantages and disadvantages of touch and vision regarding the perception of the third dimension?

4. Distinguish memory from expectation and day-dream. Discuss the utility of memory. Can it be improved? If so, how?

5. How is thought related to language? Bring out the instinctive and

acquired factors of conventional language.

6. Distinguish instinct, emotion, and sentiment. Analyse the nature

of the patriotic sentiment.

7. What are the difficulties of studying emotions (a) introspectively, and (b) experimentally?

Why do different emotions have different bodily expressions?

8. Write an essay on attention, concentrating on its relation consciousness, interest, and bodily adjustment.

9. Discuss the conditions of valid belief. How is belief distinguished

from free imagination?

10. How far is a study of abnormal minds helpful to the understand-

ing of normal minds?

In answering this question restrict yourself to cases of double or multiple personality.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Answer any SIX questions.

The questions are of equal value.

1. Describe the phenomena of visual contrast and the laws that govern them. What is the precise difference between the contrast theories of Helmholtz and Hering?

2. Describe the psychological importance of the cutaneous and kin-

aesthetic sensations.

3. What is a colour pyramid? Explain the utility of such a representation.

4. What is the difference between—(a) image and sensation, (b) feeling and emotion, (c) mood and sentiment, (d) habit and adaptation, and (e) memory and imagination?

6. Describe the principles and limitations of the mehod of expression in

the investigation of affective phenomena.

6. What is a natural reaction? How do you find the natural reaction time?

7. Discuss the principles of stereoscopic vision.
8. Describe the different subjective and vision.

Describe the different subjective and objective sources of error in s psychological experiment. How do you counteract them?

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ANTHROPOLOGY

(Pass and Honours.)

DR. G. S. GHUREYE

J. H. HUTTON, D.Sc.

MR. KSHITISPRASAD CHATTERJEE, M.A.

RAI BAHADUR SARATCHANDRA RAY, M.A., B.L.

(Honours)

RAI BAHADUR SARATCHANDRA RAY, M.A., B.L.

DR. J. H. HUTTON, D.Sc.

RAO BAHADUR L. K. ANANTHAKRISHNA IYER,

B.A., L.T.

DR. PANCHANAN MITRA.

FIRST HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only FOUR questions to be attempted.

All questions carry equal marks.

1. What are the main types of palaeanthropic man? How and in what respects do they differ, as a group, from neoanthropic man?

2. Discuss the effects of environment on pigmentation, hair, and other

physical characteristics, if any, of man.

- 3. Give a brief account of the racial history of Europe since Mousterian times.
 - 4. State and discuss the different theories of the original home of man.
- 5. Compare the physical characteristics of the higher apes with those of man, and describe the process by which these differences were gradually brought about.

6 Give a palaeontological chart of the Tertiary and Quaternary periods, noting the different human races and early anthropoid apes found in each geologic system and formation, and the characteristic fauna and climate in Europe and India in each such system and formation.

SECOND HONOURS PAPER

Candidates are required to give their answers in their

FIVE questions only to be attempted.

The figures in the margin indicate full marks.

7. What do you understand by 'Ethnology,' and what justifi-

2. What arguments are there to be found for the polygenist view of the human race? Examine them.

8. What do you understand by the following terms:—Austronesian, cymotrichous, glabella, steatopygia, pygmy, Hamitic, zygion, Chalcolithic, epicanthic?

racial, cultural, and linguistic affinities of the five following tribes or peoples:—Czech, Uzbeg, Bantu, Huron, Hoya.	
5. To what racial and linguistic groups would you assign the following five tribes of the Indian Empire, and why:—Bhil, Kadir	20
Korwa, Mawkhen, Toda?	
6. Contrast and compare the general cultures of any one of the following pairs of tribes:—Chenchu and Gend. Meithei and Newar,	20
Khasi and Oraon.	
7. Where do you consider the human race to have originated, and why? What do you regard as the courses and directions of the earliest human migrations?	20
O T	20

THIRD HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer ony FIVE questions.

1. Describe the culture of Neolithic Europe, and show on a map	20
of Europe the different sites of Neolithia finds	20
2. Discuss the racial constitution of Western Europe at the and	20
ot the Dionze Age.	•••
3. What conclusions would you draw as regards the origins and	20
growth of culture from your study of the pre-historic cultures of Europe?	
4. Write a critical note on the methods of the disposal of the dead	
Paulousou III Duuliicili IIIIIIA Delora ita Arvanization	20
J. Trace the distribution of terraced cultivation and diamed the	30
B	30
6. What are the probable origins of the domestication of animals?	
7. 'Primitive man is fond of permanent personal adornment.'	20
Comment.	20
8. Describe the primitive modes of transport by water.	
primitive modes of transport by water.	20

FOURTH HONOURS PAPER

Candidates are required to give their answers in their own words as far as practicable.

Only six questions are to be attempted.

The figures in the margin indicate full marks.

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1. Discuss the current views on the origin of caste in India. Can you suggest any hypothesis to cover the inadequacies of the existing theories?

2. Write a short note on the rules of inheritance observed	20
among (a) patrilineal, and (b) matrilineal people with regard to (i)	
inherited, and (ii) acquired property. Discuss their probable origins. 3. Define (a) ghost, (b) spirit. Describe the funeral rites of any	15
primitive people of India, indicating the elements based on fear of	
the dead kindred.	
4. Discuss the significance of the puberty rites among primitive	15
people, giving examples to illustrate your views.	
5. Discuss the probable origin of (a) the men's house, (b) secret	15
societies, among primitive people.	1
6. Write a note on (a) blood revenge, and (b) wergild (blood-	15
money), indicating the idea underlying the practice, in each case.	
7. Discuss the value of folklore and festivals in preserving sur-	15
vivals of an older culture. Illustrate with Indian examples.	
8. Define (a) sororate, (b) levirate. Discuss the probable origin	15
of the widespread practice of junior levirate in Northern India.	

Examiners— { Dr. Birajasankar Guha, M.A., Ph.D. (Harvard) Mr. Panchanan Mitra

FIRST PASS PAPER.

Candidates are required to give their answers in their own words as far as practicable.

Only TWO questions from BACH group to be attempted.

All questions carry equal marks.

GROUP A.

1. Give a full account of BITHER Pithecanthropus OB Ecanthropus, and state its relation to the human stem.

2. What dimensions do you regard as of chief importance in classifying human skulls? State the reasons for your answer. Describe accurately the precautions to be taken in ascertaing such measurements.

 Compare the physical characteristics of the higher apes with those of man.

GROUP B.

4. Describe briefly the principal types of humanity found in Africa and the distribution of each. Discuss the geographical and historical factors in these distributions.

5. Give an account of the ethnology of Assam, including the Manipur

State.

6. Give a brief survey of the racial history of Burma.

SECOND PASS PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Not more than six questions are to be attempted.

1. Write a short note on the physical type of pre-palæolithic and palaeolithic man. Indicate the cultures, if any, associated with	25
each particular type.	
	11
2. Write a note on the cave art of the upper palaeolithic age in Europe, indicating the probable motive of its origin.	18
3. Write a short note on the cultural remains of neolithic man	15
	10
in Europe.	
4. Discuss the effect of the domestication of cattle on the status	15
of women in a society acquainted with the rudiments of hoe-cultivation	
only.	
5. Write a short note on preferential mating, giving examples	15
in the case of each type.	
6. Describe the rites connected with the disposal of the dead,	15
among any primitive people of India; indicate the elements (if any)	
that point to a belief in a next world.	
7. What is father-right and mother-right? Compare and con-	15
trast the two, discussing especially the position of the father in each	
case.	
8. Write a note on (a) Tabu, and (b) Mana, discussing their re-	12
lation if any	15
lation, if any.	
9. Discuss the value of language as a test of race. Indicate	15
it: usefulness in culture analysis.	

B. Com. Examination.

1931

BENGALI COMPOSITION

Paper-Setter-Mr. S. P. Mookerjee, M.A., B.L., BARRISTER-AT-LAW.

Examiner-Mr. Tamonaschandra Dasgupta, M.A.

The figures in the margin indicate full marks.

- 1. Translate into Bengali any two of the following :-
- consists (a) Generally speaking, the retail all those business which buy from the wholesaler in fairly large quantities and sell to the public in smallest quantities. The wholesale trade congists of those businesses which act as intermediaries between the producer or manufacturer and the retailer. Some of the public buy direct from the producer or manufacturer, and so, also, do some retailers but they are comparatively few in number. It is obvious that the wholesaler and retailer depend on acting as middlemen for their livelshood and they must therefore add a percentage to the producer's price as their profit.
 - (b) Dear Sirs.

I have before me a statement of account against you duting back some two months with a note attached to the effect that it has been absolutely disregarded by you. I enclose a copy herewith and must request that you give it your immediate attention.

Should there be any discrepancy relating to this account, please communicate with me personally and I shall have the matter looked into. If on the other hand the account is correct I must insist that a settlement

is made forthwith.

Thanking you in anticipation, Yours faithfully, Secretary.

- (c) The situation of a shop is most important as it is absolutety essential to choose a locality where the goods which you intend to sell will be in demand. Again, some businesses will be much more successful if in the main road where they are seen by a good many people. Take the case of a tobacconist's shop. A man may have run short of cigarettes or tobacco. The sight of the shop reminds him of the fact and he makes a purchase. So that it is reasonable to presume that the more people who see the shop the bigger the sales of that shop-hence the main road is the best position.
 - Translate the following into English:-

ছুর্ভিক ভারতের যেন নিডা সহচর। প্রার ডিন চারি বংসর অন্তর ভারতের এক প্রবেশে না এক প্রবেশে ছড়িক উপস্থিত হয়। ছড়িকের দৃষ্ট করি করানক। रम्या निवादक प्रक्रियम्ब नवत क्ठां किन्न यानात भारत्म समयी भारते सामात सामन শিশুসভাৰতে ঠেলিরা কেলিরা বিল্লে তাহা ভক্ষণ করিতেছে। লোকে উপবৃক্ত অরাভাবে 20

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পেটের কুধার যা তা খাইতে আরম্ভ করে। গাছের পাতা এমন কি মাটি পর্যান্ত খাইতে ক্রেটি করে না। অধিকাংশ লোককেই পেটের পীড়াতে মরিতে দেখা যার।

3. Give Bengali equivalents for the following expressions:-

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- (a) Bill of exchange, (b) Government promissory note, (c) Co-operative credit society, (d) Indent.
 - 4. Write an essay in Bengali on one of the following subjects:--

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- (1) Middle class unemployment in Bengal.
- (2) Bengal Loan offices.
- (3) Present Trade depression.
- (4) Industrial development in India.

HINDI COMPOSITION

Paper-Setter and Examiner-MR. NALINIMOHAN SANYAL. M.A.

Candidates are required to give their answers in their own words
as fur as practicable.

The figures in the margin indicate full marks.

1. Translate two of the following into English: -

- (a) जापानी वस्तों की प्रतियोगिता इस समय इतनों भोषण हो गई कि उससी भारत के प्राचिश्योय बाज़ारों पर तो जापान का परिकार हो ही गया। पन भारत में भी जापानी वस्त्रों का पाधिपत्य विकत होने लगा है। यह पवस्था यहां तक पहुंच चुकी है कि भारतीय बाज़ार के बचेखुचे भाग पर भी जापान का परिकार होने की संभावना दिखाई पड़ने लगी है। जापान भारत के साथ इस प्रकार प्रतियोगिता करने में क्योंकर सचम हुषा है, इस संबंध में विचार करना पायस्यक है।
- (b) भाजकल होट-सोटा कारखाना खोलने या भीर कोई व्यवसाय करने के लिये इतनी पूँजी होनी तो भावस्थक है, जिससे वास्तिक इप में काम भारंभ हो सके। बहुत से ऐसे व्यवसाय हैं, जिन्हें थोड़ी पूँजी से नहीं चलाया जा सकता। उनके लिये भारंभ में ही उपयुक्त पूँजी की भावस्थकता पहती है। पर यह पूँजी का हां से लावें? उसके लिये पूँजी का प्रश्न ही भव्यक्त कठिन है। पूँजी के लिये दो मार्ग दिखाई पहते हैं—यातो उधार लेना या संभूय-समुखान की रौति भवलंबन करना।
- (c) भारत से समुद्र के राखे व्यापार करनेवाखी जातियों में एक फिनीश्रियन जाति थी। जिस प्रदेश के ये लोग रहनेवाले थे, वह न बहुत बड़ा था और न उपजाल ही। इस कारच व्यापार से हो ये लोग घपनी श्रांत भीर धन की बढ़ा सकति थे। व्यापार में पूर्व उत्साह होने के कारच इन्हों ने लाखसागर के किनारे श्रे चार बंदरगाह चपने कृष्णे में कर लिए, और इन्हों के दारा भारत और दिख्यी चिक्रका से व्यापार करने लगे। परंतु लाल-सागर से टायर दूर होने के कारच समझो वहां तक गाड़ी में माल लादकर के जाने में कष्ट होता था।

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2. Translate two of the following into Hindi :-

- (a) It sometimes happens that the ordinary revenue of the government does not suffice for its current expenditure. In such a case modern governments resort to the practice of borrowing. In former times governments used to lay by a large sum of money to serve them in times of need. But modern financial principles are against hoarding money out of revenue. Surpluses are utilized for remission of taxation. Only such money should be taken from the pockets of the subjects as is essential for public purposes.
- (b) The United States is not only a great agricultural and mining country, but it is also a manufacturing country. Manufacture in the States gives employment to no fewer than eight million people, and the value of articles manufactured is reckoned at fully three thousand million sterling, or fully ten times the total value of textiles annually exported by Great Britain. Textile manufactures give employment to over a million and a half of wage-earners; while iron and steel, and their products give employment to fully a million.
- (c) I have your letter re account, and must say that I think you are somewhat harsh in your treatment of this matter. As my cashier explained, I am expecting some remittances in a few days, and I can promise you a cheque by Saturday at the latest. By waiting these few days only you will assist me greatly, as legal action will only run me into expenses which I would be glad to avoid; and you can depend upon it that I shall not fail you on Saturday. I therefore rely upon your leniency in this instance.
 - 3. (a) Give in Hindi very briefly the main ideas contained in the ollowing:—

सायवाद के कोटे-बड़े सभी भाचार्य सिक्षान्त तथा कार्यनीति में मतसेद रखते इए भी इस बात में सहसत थे कि धनियों भीर ग्रोबों की विवसता दूर हो जाय। सायवाद का यह भान्दोखन तभी ग्रुह हो गया था जब कि लोहमय दानवीं के वर्तमान व्यवसाय का प्रारक्ष नहीं हमा था।

(b) Fill up the blanks in the following: -

गत २४ जनवरी — — बात है। मैनचेष्टर गार्जियन -- एक संवाददाता
— भारत — रहनेवाले उमके एक चंगरेज़-व्यापारी दोस — वर्तमान
भारतोय राजनीति — सम्बंध में एक पत्र सिखा था। — पत्र से यह स्पष्ट हो
साता — कि भारन — रहनेवाले चगरेज़ीं — यहां का राष्ट्रीय चान्होलन
विलक्षता पर्नट नहीं है।

4. Write an essay in Hindi on one of the following subjects :-

(a) Labour strikes, their cause, and their effect.

(b) The comparative importance of division of labour in agriculture and industries.

(c) The Coal trade of India—its present unsatisfactory condition—the obstacles to its development—foreign competition—high railway freight.

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URDU COMPOSITION

Paper-Setter and Examiner—Shams-ul-Ulama Hidayet Hussain, Khan Bahadur, F. A. S. B.

The figures in the margin indicate full marks.

1. Translate into Urdu :-

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- (a) Judging from Sir Mirza Ismail's recent address to the conference of South Indian States at Bangalore, India is distinctly fortunate in having this distinguished statesman as one of its prospective spokesmen at the Round Table Conference. Sir Mirza Ismail is the Dewan of Mysore, the second State in India in the table of precedence, but, as any one who has been there will admit, second to none in enterprise, enlightenment and prosperity. The mere fact that this Hindu State should be administered by a Mahomedan nobleman suggests that it has gone far to solve the perennial Hindu-Moslem problem. Sir Mirza Ismail's unique position in India lends additional weig't to his observations on the political situation; but a perusal of them reveals a sanity and an original viewpoint sufficient in themselves to commend them.
- (b) Angkor is mysterious. A thousand years ago it was the great capital city of the Khmer Empire. The empire was vast; millions paid tribute to the Brahin emperors who ruled on a throne supported by pillars of religious superstition. The entire Khmer empire revolved about the deities and to these strange gods the emperors paid a tribute even greater than the tribute paid to themselves.

A great building plan was devised: huge temples and monuments to the gods were to be erected in the capital city in order that the empire might acquire merit. Nothing but the greatest of human achievements would suffice. Angkor was situated on a plain; the gods surely would be pleased if vast and beautiful temples were erected on this site, temples of stone erected on a spot lying hundreds of miles from the stone quarries.

2. Translate into English :-

دو کبرتر ایک هی آشیانے میں رها کرتے تیے ۔ ایک کا نام تها بازندہ ۔ درسرے کا نواندہ ۔ بازندہ کے دل میں سیر ر سیاحت کا شرق پیدا هوا ۔ اپ درست سے کہا '' آؤ هم تم مل کر دنیا کی سیر کریں کیونکہ سفر میں بے شمار عجائبات نظر سے گذرتے هیں اور برا تجربه حاصل هوت هے'' ۔ نوازندہ نے کہا ''سنو بھائی ۔ تم نے کبھی سفر کی محنت نہیں سہی اور غربت کی مشقت نہیں اُٹھائی ۔ کی محنت نہیں سہی اور غربت کی مشقت نہیں اُٹھائی ۔ اگر تم اس سے واقف هوت تو هرگز ایسا فضول اوادہ نه کرتے'' ۔ بازندہ بولا ''یہ تو سے ہے' کہ سفر میں تکلیف هوتی ہے لیکن نئی ' چیزرن کے دیکھنے اور نئے لوگوں سے هوتی ہے لیکن نئی ' چیزرن کے دیکھنے اور نئے لوگوں سے

ملنے کے بعد انسان یہ تمام کلفتین بھول جاتا ہے۔ اس وتت مصیبت بھی راحت معلوم ہوتی ہے'' *

8. Explain :-

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ارر عشرت کی تمنا کیا کریں سامنے تو هر تجے دیکھا کریں معو هو جائیں تصور میں ترے هم بھی اپنے قطرے کو دریا کریں هم نہیں هیں راقف رسم ادب دلکی ہے تابی کو رحشت کیا کریں دلکی کے تابی کو رحشت کیا کریں

- 4. Write an essay in Urdu on one of the following subjects:-
 - (i) Insurance and its advantages.
 - (ii) Weaving in India—past and present.
 - گلی میں یارکی اے شاد سب مشتاق بیتی هیں (iii) خدا جانے رهاں سے حکم کس کے نام آلے گا

MALAYALAM COMPOSITION

Paper-Setter—Mr. K. Zachariah.

Examiner—Mr. C. F. Abraham.

The figures in the margin indicate full marks

- 1. Translate any one of the following passages into idiomatic English:—
 - (a) നിയമ സഭയുടെ ബഡ് ജററു സമ്മേളനം കഴിഞ്ഞു കൂടിയിരിക്കുന്നും സംഭവശ്ശ്വന്വമായ ഈ സമ്മേള നഞ്ഞു പററി എന്താണു പറയേണ്ടതെന്നു ഞങ്ങറംക്കുനിശ്ചയമില്ലം ഉദ്വോഗസ്ഥഭാഗത്തു നിയമ സഭയെപ്പററി ഒരു അനാഭരവും നിരുത്തരവാഭത്വവുമാണു പ്രതൃക്ഷ പ്രെട്ടതെങ്കിൽ അനുഭ്യോഗസ്ഥമെമ്പറന്മാരുടെ പക്ഷത്തു എന്തെന്നില്ലാത്ത നിരാശയാണുണ്ടായത്. എന്നതന്നെ യുമല്ലാ ഗൗരവമായ ഒരു കൃത്വമാണ് തങ്ങറും നിവ്വറിക്കുന്നുതെ സമാസ്രം നയനങ്ങറും സൂക്ഷ്യമായി വീക്ഷിച്ചു കൊണ്ടിരിക്കയാണെന്നുള്ള വിചാരമോ അനുദ്വോഗസ്ഥ മമമ്പർമാക്കു കുറവായിരുന്നെന്നും സമ്മതിക്കേണ്ടി യിരിക്കുന്നും
 - (b) നാടോട്ടു വ്വാപിച്ചിരിക്കുന്ന പണത്തിനുള്ള ഭൗർല്പള്യം എത്രയാണെന്നു നാനാതരക്കാരും രാജ്വത്തി നെറ വിവിധ ഭാഗങ്ങളിലുള്ള വരുമായി ദിനംപ്രതി ഇടപെട്ട കൊണ്ടിരിക്കുന്ന ഞങ്ങഠംക്കു നല്ലവണ്ണമറിയാം സാമാനങ്ങഠം കറഞ്ഞ വിലക്കു കിട്ടുമ്പോഠം അചേതന മായ സ്വണ്ണവും വെള്ളിയും കുറയുന്നതിലെന്തും നെന്നു തത്വജ്ഞാനികഠം ചോദിച്ചേക്കുമെങ്കിലും കർഷകപ്രധാ നമായ ഈ രാജ്വം ഇന്നു തരണം ചെയ്യെണ്ടിവന്നിരിക്കുന്നു

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വിഷമഘട്ടം ചിന്താശീലന്മാരായവരെ സൂക്കിപ്പിക്കുവാൻ പയ്യാപ്ലാമാണെന്നു പറയാതെ തരമില്ല. അതിനാൽ സകല ആഭായമാഗ്ഗങ്ങളേയും വദ്ധിപ്പിക്കുകയും അതേസ മയം തന്നെ വ്വയമാഗ്ഗങ്ങളെ ചുരുക്കുകയും ചെയ്യുന്നതി ൽ ജാഗരുകരായിരിക്കുന്നവരിൽ നിന്നു വിചാരിച്ചട ത്തോളമുള്ള പ്രോൽസാഹനം ഞങ്ങക്കുറംക്കു ലഭിച്ചില്ല.

- 2. Translate any two of the following passages into Malayalam:-
- (a) We have no hesitation in recording our belief that the greatest hope for the salvation of the rural masses from their crushing burden of debt rests in the growth and spread of a healthy and well-organised cooperative movement based upon the careful education and systematic training of the villagers themselves. Thrift must be encouraged by every legitimate means, for the savings resulting from the thrift of the cultivating classes form the best basis of the capital they require.
- (b) Over-production of goods and raw materials, over-capitalization of railways, and feverish speculation in all sorts of corporate enterprise brought financial panics. During the hard times that followed, labour expressed its dissatisfaction by strikes of unparalleled violence. It was a period of cut-throat competition in which the big fish swallowed the little fish and then tried to eat one another.
- (c) The Stock Exchange is only a department of the money market. The commonest way of hiring money for business purposes is to keep an account at a bank and hire spare money there when you want it. The bank manager will lend it to you if he feels reasonably sure that you will be able to repay him; in fact, that is his real business. He may do it by letting you overdraw your account.
 - 3. Write an essay in Malayalam on one of the following topics:-
- 40

- (a) The uses and limitations of technical education.
- (b) Trade Unions and their proper functions.
- (c) The problem of the 'depressed classes.'

TAMIL COMPOSITION

Paper-Setter and Examiner—RAO BAHADUR L. K. ANANTHA KRISHNA IYER, B.A., L.T.

The questions are of equal value.

1. Translate into Tamil any two of the following passages :-

(a) As economically, the railway is length with little breadth, in undeveloped countries it can only be looked upon as an artery, depending for its freight on the roads and tracks which converge upon it. If these roads and tracks be few in number, generally speaking, freights will be insignificant, and the railway in place of fostering wealth, will swallow it up or stifle it. The

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railway must, therefore, be skirted by a network of roads. The cheapest form of road is a rough cart track, and where the country consists of grass land and the rainfall is low, as in South Africa, extensive use can be made of bullock carts for purposes of transportation. The bullock wagon has reached, however, the zenith of its evolution, and is by no means suited for countries where grazing is difficult. If fodder has to be carried in bulk, it at once becomes an uneconomical means of movement. If the country to be traversed is unsuited to this form of transport, we are left with the lorry.

- (b) With the evolution of man, and in the course of ages, the distribution of forests was profoundly affected. At first the progenitors of Man were insignificant individuals, wandering in the depths of primaeval and gigantic forests on which they were dependent for the necessities of existence. The forest was their home and the trees of the forest their gods. But gradually Man became gregarious, collected into tribes and communities, and started an agricultural and pastoral existence, clearing the land in ever widening circles for cultivation and grazing. The destruction of forests was not however uniform, but varied directly with the stage of civilization reached. The destruction of forests went on in all countries with the expansion of civilization. In this process Man forgot the great importance of forest products to civilization itself. Modern civilization is largely dependent on forest products and a definite area of land under forest is an economic and physical necessity for the well-being of every progressive country.
- (c) Several measures can be suggested for combating the poverty evil. Besides introducing improvements in the methods of agriculture and extending the cultivated area, every effort should be made to diversify the occupations of the people. The Government and the people should join hands in establishing manufactures of all sorts—large-scale industries as well as small handicrafts and cottage industries. Greater moderation in the assessment of the land revenue, together with less rigidity in its collection during bad years, a definite limitation of the share of the State in the income derived from land, will ensure the cultivator the fruits of his labour and greatly improve his economic condition. Emigration, if properly organised, will appreciably help to relieve the pressure of population on the soil. The extension of co-operative credit will be very useful in checking the indebtedness and promoting thrift among villagers. The establishment of Arbitration Courts will decrease ruinous litigation. And, lastly, it is to be hoped that the leaders of the people will take active steps to root out evil customs wherever prevalent.
 - 2. Write an essay in Tamil on any two of the following subjects :-

(a) The Handloom Industry.

(b) Railways and Economic Progress.

(c) The Indian Village.

GERMAN COMPOSITION

Paper-Setter—Dr. Stella Kramrisch, D.Litt. Examiner—Dr. Rev. P. Johannes, S. J.

The figures in the margin indicate full marks.

1. Translate into English :-

Meine Mutter, Fran von Schuabelewopks, gab mir, als ish Nerauwuchs, eine gute Erziehung. Wie oft als Knabe versäumte ish die Schule, um auf den schouen Wiesen von Schuabelewops einsam darüber nachz udenken, wie man die gauze Menschheit beglücken könnte. Man Nat mich deshalb oft einen Müziggänger gescholten und als solchen bestraft; und für meine Weltbeglückungö gedanken umolte ich schon damals vid Leid und Not adulden. Die Geyend non Schusbelewops ist übrigens schr schon, es flieszt dort ein Flüsschen worin man des Sommers schr angenehm baolet anch gibt es allerliebste Vogeluester in den Jehölzendes Mers. Das alte Guesen, die chemalige Hauptstadt von Polen, ist mor drei Meilen dovon eubgant.

2. Translate into English :-

The Preiscourant ist uns diesen Morgen zugekommen und wir eutnehmen darans, dasz sich Thre Preise ab Hütte verstehen.

Wir sind mit den kontinentalen Frachtverhältnissen nicht vertrant, und es wäre uns lieber, wenn Sie für uns immer frei an Bord Hamburg quotieren wollten.

Wir können Thuen diesen Monat unr 6 Tonnen Drahtstifte, Grösze No. 4 abnehmen; hoffen aber, bald bedentendere Geschäfte mit Thuen machen zu können.

Da dies unser erstes Geschäft ist, schlieszen wir Rimessen auf Hamburg bis und verweisen Sie bezüglich Referenzen au unsere Bank, die London and County Bank, Hull, und au die Herren Schmederer und Flügel, Hamburg.

Wir sind überzeugt, dasz diese Häuser Thuen alle gewünschte Anskunft ertislen werden. Wir arbisten mit dreimonatlichem Kredit und erwarten, dasz auch Sie uns einen solchen einräumen werden.

Hoch achtung voll

Sunth & Hammonol.

Translate into German :-

Referring to my letter of this morning, I We regret to have been without at y communication from you since your favour of August 12th of last year.—I consider you to be in possession of my letter of Monday last, and am still awaiting an answer. We confirm our letter of the 1st inst. and as we are still without your replyIn continuation of my letter of the day before yesterday, I beg to inform you that

Write an essay in German about the striking claracteristics of one 25 of the large cities of Germany, such as Berlin or Munich.

FRENCH COMPOSITION

Paper-Setter-Dr. Prabodhchandra Bagchi.

Examiner-Mr. N. N. Chandra, M.A.

The figures in the margin indicate full marks.

Translate the following into English:—

(a) Voyez quelle folie d'aller vous chercher, d'aller vous attendre à Breslau! vous y serez cocupé du roi, des troupes de vos succès, etc., etc., et rien ne vous portera à jeter vos regards vers Paris. J'ai tort, Paris est bien grand, mais vous m'y laisseriez dans la foule. Cependant croyez-moil, il y a peu, mais très peu, et si je ne craignais de vous affliger, je vos dirais: il n'y a personne qui vous regrette plus sincèrement que moi.

(b) J'en suis bien fâchée, mais, mon smi, pourquoi me demandezwous l'impossible? donnez-moi l'occasion de vous être utile dans ce que 25

vous croirez juste, je vous réponds que cela ce fera, et sans que je m'en mêle: vous n'aurez qu'à parler. Si vous saviez ce qu'il m'en coûte pour vous cacher gelquechose!...Bonjour. Si je n'ai pas une lettre demain, il n'y a point de justice a attendre de vous.

2. Translate the following passages into French:-

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(a) There were at this time two parties in the State, one was powerful and the other was very feeble. The King's object was to help the weak party. Accordingly, golden images of the leader of the second party were secretly made and placed in the public places by night. The next morning the people were full of admiration for the beautiful images.

the people were full of admiration for the beautiful images.

(b) My dear friend I am gone! My loss in the transactions of the last two years is heavy and I cannot hope to make that up in the near future. My credit in the market is ruined. I am compelled to apply for insolvency. It is not possible for me to pay even 25% of my debts to you. I hope you will have sympathy for your old friend and wait till better days come.

3

Either,

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Draw up a report, in French, to be submitted to the French Trade Commissioner in Calcutta about the possibilities of the French trade in the local market.

Or.

Write a letter in French, on behalf of your firm, to its Commercial agent in Marseilles, asking him to secure orders for Indian hats from the dealers in Abyssinia and French Indo-China. Intimate also to him the conditions under which your firm is prepared to carry on business with those dealers.

GENERAL ECONOMICS

Paper-Setter—Sir J. C. Coyajee, Kt., B.A., LL.B. Examiner—Mr. Mohinimohan Chaudhuri, M.A.

The questions are of equal value.

SIX questions only to be attempted.

1. Indicate the scope of Economics, and examine the relation between Economics and the sciences of Politics and Fthics.

2. "Value, supply, and demand are inter-dependent." Explain this state-

ment carefully.

3 Explain the economic theory of Rent, and show what relation Rent bears to the cost of production.

4. Distinguish between Profits and Interest, and analyse the former into their main elements.

5. Account for the differences of wages (a) as between different countries, and (b) as between different occupations.

6. Account for cyclical trade fluctuations, and show how the recurrence of over-production is connected with the nature and character of the present system of production.

7. Discuss carefully the relation between the supply of money and the level

of prices.

8. Discuss the functions of banks, and describe the services rendered to a country by its banking system.

9. Show how banks possess the power of manufacturing credit so as to-increase currency. What are the limits to this power?

10. Explain the meaning of "comparative cost of production" as the principle governing International trade.

INDIAN ECONOMICS

Paper-Setter-Mr. Satischandra Ray, M.A.

Examiners— { PROF. P. N. BANERJEA, M.A., D.Sc. (LOND.). DR. NALINAKSHA SANYAL, M.A., PH.D.

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value. Attempt only six questions.

1. What constitute the natural resources of India? Enumerate some of the principal commercial agricultural products. What are their industrial uses, and what part do they play in her external commerce?

2. Give a brief de-cription of the indigenous system of Indian Banking and

the methods by which it finances internal trade.

3. Indicate briefly the present currency policy of the Government of India adopted on the recommendations of the Hilton-Young Committee of 1926.

4. Taxes are levied both for revenue as well as for social purposes. Give

examples from the Indian system.

- 5. What are the implications of the theory of State landlordism in India? Criticise this theory.
- 6 Does the Government intervene in the organisation of internal trade of India? If so w.t. what results?

Give the main features of the organisation of the Jute trade.

 Summarise the reasons for the depression of jute industry of Bengal, and suggest remedi s for the future.

8. Explain what is meant by "discriminating protection." To what

industries has this principle been applied, and for what reasons?

9. Enumerate the special functions of the Central and Provincial Cooperative Banks. Have you any reasons to believe that the Co-operative movement in Bengal has not been as successful as was anticipated at their inception?

10. Indicate the different stages in organising relief measures during

famines. Explain the object and significance of each of these organisations.

11. Discuss the adventages of a Cartral State. Bank for India. What

11. Discuss the advantages of a Central State Bank for India. What are the grounds that led to the proposal of establishing such a Bank in 1927?

ACCOUNTANCY

Paper-Setter-Mr. S. N. Mukherjee, M.A. Examiner-Mr. Narendranath Sarkar, M.A.

The questions are of equal value.

Answer any BIX guestions.

1. From the following schedule of balances of Liberty Contractors, Ltd., prepare Trading and Profit and Loss A/c for the half year ended June 30th, also Balance Sheet as on that date:—

Share Capital (10,000 shares of Re. 1/- each, -/8/- called) 6% Debentures issued 1st Jan						
Debentures 188	ned lat Jan	D	•••	•••	•••	4,500
Debtore	•••	***	•••	•••	***	4,250
Bank Overdraft	•••	•••	•••	***	•••	1,780
Bills Receivable		•••	***	•••	***	1,499
Goodwill and Pate	nt Rights	***	***	***	•••	4.000

*	•	V			Rs.
War Loan Investments	•••	•••	•••	•••	600
*Creditors	•••	•••	•••	•••	4,246
Machinery and Plant	•••	•••	•••	•••	6,000
Preliminary expenses	•••	•••	•••	•••	124
Calls in arrear	•••	•••	•••	• • • • • • • • • • • • • • • • • • • •	200
Calls paid in advance	•••	•••	•••	•••	400
Stock 1st Jan	••••	•••	•••	***	1,709
Work in progress 1st Jan.	•••	•••	•••	•••	685
Cash in hand	•••	•••	•••	•••	86
~Wages	•••	•••	•••	•••	6,184
Salaries of office staff	•••	•••	•••	•••	834
' Postages and Telephone	•••	•••	•••	•••	54
Rent, Rates and Taxes	•••	•••	•••	•••	95
Stationery and Printing	• • •	•••	•••	•••	3;
Office expenses	•••	•••		•••	17
Materials purchased	•••	•••	•••	•••	2,486
Bills payable	•••	•••	•••	•••	2,815
Royalties on Patents (received)	•••	* •••	•••	•••	287
Sales	•••	•••	•••	•••	9,874

At 30th June, the stock of materials was Rs. 1,087, and the value of the work in progress Rs. 419. There was a contingent liability on Bills under Discount of Rs. 284. Ignore depreciation.

- 2. How would you treat the following in the Accounts and Balance Sheet of a Company:—
 - (a) "Collateral" Debentures issued to the Bankers.
 - (b) Loans by the Company to one of the Directors.
 - (c) Premiums on shares.
 - (d) Profits earned prior to the incorporation of the Company.
- 3. X, Y, and Z are in partnership sharing Profits and Losses equally. On 31st December, 1930, they decided to dissolve the partnership, on which date their position was as follows:—

Balance Sheet.

Capital, X , Y ,, Z Loan A/c Y Creditors	 	Rs. 5,000 2,500 500 1,000 2,000	Plant, Debtor Stock Cash	••• ••• •••	•••	Rs. 5,500 2 400 3,000 100
	•	11,000			•	11,000
	,				-	

Y agreed to take over the stock at a valuation of Rs. 2,700. The Plant and Debtors realised Rs. 6,400. The Creditors were paid in full.

Close the Partnership books.

4. What is the average due date of the following instalme: ts payable under a contract :--

			Rs.
June 1st	•••		3,000
July 1st	•••	•••	4,200
August 3rd	•••	•••	1,80û

Draw a bill to meet the Rs. 9,000/-, with interest at 5 per cent. thereon at 60 days from the average due date.

· Or

B. Banerji has the following transactions with C. Chatterji:-

1930,	•		Rs.	Ав. Р.
Septr.	1. Balange due to Baner i at this date	•••	50	0 0
•	2. Goods old to Chatterji	•••	120	0 0
,,	10. Received cash from Chatterji on account	•••	100	0 0
Octr.	1 Goods bought from Chatterji invoiced December 1st	•••	٤0	0 0
,,	10. Goods sold to Chatterii invoiced 1st December	•••	250	0 0
Decr.	1. Drew Bill at 3 months on Chatterji for Rs. 200	and		
	discounted same for Rs. 197/	•••		
1931.				14.
Jan.	10. Sold goods to Chatterji invoiced 1st February	•••	150	0 0

Make out an Account current, to be rendered by Banerji, to record the above transactions, the account to be made up to 31st January, 1931, interest at 5 per cent. per annum to be charged and allowed.

- 5. (a) What is meant by the term "Depreciation"? Is it the same as ordinary wear and tear? Explain the object of charging Depreciation in the Profit and Loss Account as an expense.
 - (b) Explain the following terms :-

Capital Expenditure; Capitalised Expenditure; Capital Receipts; Capital Profits; Capital Profits; Capital Reduction; Capital Appreciation.

- 6 Rama draws a Bill of Ex hange on Hari on 1st February at three months for Rs. 300. Hari accepts the Bill and Rama discounts it on 4th February with the Central Bank of India, Ltd., at 6 per cent. remitting one half on the proceeds to Hari Rama does not forward his proportion of the Bill, but Hari m eta it upon the due date. Shew the transactions in the books of both Rama and Hari.
- 7. Prepare Journal entries to record the following transactions in the books of Everfailing Co., Ltd.:—

200 shares of £1 each, 12/6 called up, and on which 7/6 per share had been paid, were forfeited and subsequently sold to Fox, for £100, credited with 12/6 per share paid up.

8. Describe the entries necessary to record the transactions relating to a consignment in the books of both the Consignee and Consignor.

ECONOMIC GEOGRAPHY

Paper-Setter,—Mr. Mohitkumar Ghosh, M.A. (Cal.), B.Com. (Lond.).

Examiner-Dr. NALINIMOHAN PAL.

The questions are of equal value.

Answer any six of the following questions.

- 1. Carefully examine the geographical position of Egypt in relation to world trade routes.
- 2. Describe the present development of irrigation in South Africa, and examine its possibilities.

3. Consider the position of France with regard to her supplies of (a) fuel, (b) water-power.

4. Examine the influence of geographical factors on the localisation of the

iron and steel industry in U.S.A.

5. Examine the growth of either the cotton industry, or the jute industry in India.

- 6. Discuss briefly the position of the following industries in India:
 - (1) Paper-making;
 - (2) Match;
 - (3) Iron and steel.
- 7. Peartibe any six of the principal British coal-fields, and their connection with British manufacturing in lustries.

8. Examine and estimate the relative importance of the principal means

of transportation for carrying on inland trade in India

9. Describe the chief forest are: s in India, and mention the chief industries that are mainly dependent on forest products

BUSINESS ORGANISATION

Paper-Setter & Exaniner—Mr. Mohitkumar Ghosh, M.A. (Cal.), B.Com. (Lond.).

The questions are of equal value.

Answer ANY FIVE of the following questions.

- 1. Trade is sometimes divided into "Import and Export;" "Wholesale and Retail." Discuss carefully the defects of this division. Can you suggest any useful method for the classification of trade? Give full reas ns.
- 2. What is a Limited Partnership? Compare its advantages and disadvantages with those of a Private Limited Company.
- 3. "The Joint Stock Company is the only form of organisation in which a permanent opposition of interests can exist." Examine this statement, and show by what devices this opposition can to a certain extent be eliminated.
- 4. "The financial recources or producers are not adequate to carry the whole risk of price fluctuations as well as the expenses of production." Carefully explain this statement and show how this risk is borne in the modern business world.
- 5. Critically examine the various methods of remunerating labour in industry.
- 6. Explain clearly how movements in the Bank Rate affect the price of securities on the Stock Exchange. Also show how trade is affected by a low Bank Rate.
- 7. Define Speculation and show how it differs from Gambling. Also carefully examine how far the speculator performs a useful function in the modern economic system.
- 8. "A contract of Marine Insurance is a contract founded on the utmost good faith." Examine this statement carefully and show how far it is justified.

INLAND AND FOREIGN TRADE

Paper-Setter & Examiner-Dr. Jogeschandra Sinha, M.A., Ph.D.

The questions are of equal value.

Answer ANY SIX questions.

1. "There is no essential difference between domestic and international trade and consequently no place for any special theory regarding international trade."

Comment on this statement.

2. Discuss the importance of marine insurance in seaborne trade, and distinguish in this connection between a "general average loss" and a "particular average loss."

3. What are bonded warehouses and what services do they render to persons

engaged in foreign trade? 4. What are the chief peculiarities in the financing of foreign shipments

by Germany? 5. Give an account of the chief methods followed in financing the export of British textile goods to India.

6. Describe the part played by (a) indigenous bankers, and (b) the Imperial

Bank, in financing the inland trade of India

7. Describe the present commercial organisation in the movement of jute from the villages to the port of Calcutta. Can you suggest any u ethod by

which some of the middlemen in this trade may be eliminated? 8. X, a merchant in Calcutta, accepts an offer from Y, a merchant in

London, for supplying jute worth £10,000 at 3 months' credit. Is there any method by means of which X can get cash against shipment? Describe also how the money is ultimately paid by Y. Answer this questions, as fully as you can, giving all necessary details.

9. Account for the changes in the direction of India's foreign trade, as indicated by a comparison between the latest trade statistics and those for the

period immediately before the War.

- Write notes on any three of the following:-
 - (a) Consular invoice, (b) Trust receipt.
 - (c) Letter of hypothecation,
 (d) Bill of lading,
 (e) Bill of sight.

ELEMENTARY COMMERCIAL LAW

Paper-Setter-Mr. Pramathanath Banerjee, M.A., B.L., BARRISTER-AT-LAW.

Examiner-Mr. Satyendranath Chatterjee, B.Sc., BARRISTER-AT-LAW

The questions are of equal value.

Eight questions in all to be attempted: Four out of each Half.

FIRST HALE

- 1. Distinguish between void and voidable contracts. State whether the following agreements are void or valid:-
- (a) A promises B in consideration of Rs. 1,000 never to marry throughout his life.

- (b) A promises to pay a certain sum of money to B who is an intended witness in a suit against A, in consideration of B's absenting himself at the trial.
- 2. Define consideration. What are the points of difference between the English law and the Indian law on the subject of consideration for a contract?
- 3. What is bailment? What is the extent of the liability of a Railway company in India as a bailee? Does the liability of such a company differ in England? If so, to what extent?
 - 4. Explain any two of the following terms :-
 - (a) Quantum meruit,
 - (b) Stoppage in transit,
 - (c) Resale.
 - (d) Del credere Agent.
- 5. A was given a power of attorney by B to manage B's shop. A, who had to go out of town one day, authorized his son C to look after the business. C, who held a power from his father A, entered into a contract in the name of B and signed the same. What is the position of the parties?
 - 6. Distinguish between a contract of guarantee and a contract of indemnity.
- 7. A gets hold of B's cheque book and forges B's name on a cheque. He obtains money from B's bankers by presenting the forged cheque and then disappears. Who bears the loss—B or the bankers?
- 8. What is the position of a minor in the matter of Negotiable Instruments?

SECOND HALF

- 9. Explain:-
 - (a) A drawee in case of need.
 - (b) A holder in due course.
- 10. State the points of difference between the Memorandum of Association and the Articles of Association of a Limited Company. How can you alter the Memorandum of Association?
- 11. Under what circumstances will the Court compel the winding up of secompany?
- 12. Define: (a) Life insurance, (b) Marine insurance. Can you assign (a) a life policy, (b) a marine insurance contract? If so, how?
- 13. Distinguish between a Charter party and a Bill of Lading. What are the warranties implied in a Charter party?
- 14. Can (a) an infant, (b) a married woman, (c) a resident alien be made a bankrupt?
- 15. Under what circumstances can the Court set aside the award of an arbitrator?
- 16. What are the rights and duties of partners as (a) between themselves, (b) against third parties?

AGRICULTURAL ECONOMICS

Paper-Setter-Dr. NAGENDRANATH GANGULI, C I.E.

Examiners— { PROF. NAGENDRANATH GANGULI, M.A. DR. N. N. GUPTE, PH.D.

FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer ANY FIVE questions.

- 1. With special reference to the position of the Bengal cultivator 20 during the last six months of 1930, explain how the scarcity of money can bring a famine condition more acutely than the scarcity of foodstuff.
- 2. If Ryots as a body refuse to pay rents and taxes to their superior 20 landlords, how can the factor affect the general condition of agriculture in a province like Bengal where the permanent settlement is in vogue.
- 3. What normal conditions are necessary to make agriculture a 20 successful industry? Broadly contrast agriculture with manufacturing industries.
- 4. What do you mean by rural industries? Name a few that can 20 profitably be allied to rural agriculture.
- 5. Write a short essay on the Co-operative movement in Bengal, and 20 indicate how it can help the rural folk. Indicate in it also some promising lines in which this movement can be adapted.
- 6. In what respects can the agriculture of the country be improved and what are the chief factors for the improvement of agriculture in modern times?

SECOND PAPER

Candidates are required to give their answers in their own words as far as practicable.

The figures in the morgin indicate full marks.

Answer ANY FOUR of the following questions.

- 1. Write short notes on the following crops with reference to the 25 following points:---
- (a) Acreage in Bengal approximately, (b) average outturn per acre, (c) cost of cultivation per acre, (d) average price per maund, (e) chief varieties recommended by the department of agriculture.

Crops:—Paddy, Jute, Sugarcane, Wheat.

- 2. What do you mean by the following: intensive crop, food crop, 25 khariff crop, artificial manure, rural indebtedness, waste labour, rotation of crops? Give concrete examples wherever possible.
- Do you think that the adoption of a griculture as a profession by the young men of Bengal can solve the problem of unemployment to any extent? Give reasons and facts and figures for your contention.
- 4. Write a short note on rural depopulation, and explain fully how the 25 villages can be improved.
 - 25 5. Give the following figures :-

25

(a) How many Bengal bighas make one acre?

- (b) How many pounds make one maund?
 (c) What is the present relation of a shilling to a rupee?
 (d) What is the average rainfall of any district in India?
 (e) How many gallons of water are equivalent to an inch of

rainfall per acre?

(f) How many maunds of jute are there in a bale?

ADVANCED ACCOUNTANCY AND AUDITING

FIRST PAPER

The questions are of equal value.

Five questions carry full marks, not more than THREE to be attempted from any Half.

First Half.

1. Goods are invoiced by G to his Agent in Rangoon at selling price. The Agent reports sales made and collection of book debts ty him by monthly advice. He receives 5% on Cash collected, plus an allowance for expen es at the rate of Rs. 2,000 per annum. During the half-year ended 30th June, 1930 4 cods were invoiced to the Agent at a value of Rs. 4,03,000. Such goods cost G Rs. 2,75,000, plus freight and charges thereon Rs. 38,700 During the ame period, sales were made by the Agent amounting to Rs. 8,42,000. Debta collected were Rs. 2,88,000, and discounts were allowed amounting to Rs. 2,000. The Agent remitted to G Rs. 2,80,000.

Included in the shipments to the Agents was a consignment partly damaged by sea transit. A claim on the underwriters was settled for Rs. 6,200, which together with the proceeds of sale by the Agent, Rs. 8,800, exceeded the value invoiced by Rs. 800.

At 30th June, 1930, the stock in the hands of the Agent and unsold represents an invoice cost to G of Rs. 40,800.

Prepare, as in the books of G, Accounts showing the results of these transactions for the half-year ended 30th June, 1930.

2. The accounting year of the All-India Trading Co., Ltd., Calcutta, with Branches at Rangoon and Madras, closed on 30th April, 1931. After making all the necessary adjustments, the balances in the books of the Head Office and Branches were as follows:—

		Head Office.	Rangoon Branch.	Madras Branch.
		Rs.	Rs.	Rs.
Authorised Capital, 5,0	00			
Shares of Rs. 10 each		50,000	•••	
Subscribed and Paid-up Capits		30,000	***	•••
Freehold Promises	• •••	22,000	***	***
Rangoon Branch .	••	2,945	•••	•••
Madras Branch		1,155	•••	•••
Stock, 1st May, 1930		8 000	4,000	1,500
Stock, 30th April, 1931		10 500	4.100	1.050
Disab less Disables	••	1,200	500	250
Fixtures and Fittings, less De		•		
manaiatiam	••	2,500	800	500
Creditors	••	3,540	1,250	250
Debtors		6,500	1,300	400
Cash in hand	• ••	100	50	20
Bills Payable		1,000	250	150
Bank Overdraft	•	4,000	900	300
Dividend, 10%		3,000		
Head Office Account		•••	2,945	1,155
Insurance		200	100	20
Insurance paid in advance		50	25	5-
T)	••	16,000	6.500	2,500
Duty and charges on purchase		500	200	90
Manufacturing Wages .	••	5,080	3,000	•••
Sales	••	32,000	15,750	4,500
Discounts (Cr.)	••	300	120	50
Discounts (Dr.)	••	5 50	250	25
Salaries	••	4,650	2,750	550
TO! A! Til	••	500	•	000
70 1 TO LA	••	150		20
Reserve for Doubtful Debts, 1		200	00	20
Mar. 1090	••	300	120	50
Rent of Office, etc.	••	•••	1,000	350
Themmesiables	••	370	130	75
Tmåamank	••	540	37 0	70 50
O 1 D	••	600	300	100
Profit and Loss A/c, 1st May		000	500	100
1930. (Cr.)	** ***	5,450	•••	•••

Prepare Profit and Loss accounts of the Head Office and Branches, and Balance Sheet of the Company.

3 On 1st July, 1925, A. B. Co., Ltd., issued Debentures for Rs. 5,00,000 redeemable at par on 1st July, 1930. It was decided to establish a Sinking Fund for the purpose of redemption.

Show the Ledger accounts for the five years assuming the annually invested amounts to earn 5% interest net, and that the amount annually set aside for the purpose is Rs. 90,487-8-0.

4. The following is the Statement of Affairs at 31st March, 1930, of Young and Old, who are in partnership, sharing profits and losses in the proportions of 2/8 and 1/3, respectively:—

From the particulars given hereunder, prepare as at 31st March, 1981, (c) a Statement of Profit, apportioning the balance between Young and Old, and (b) a Statement of Affairs as at that date:—

Statement of Affairs as at 31st March, 1930.

	Rs.			Rs.
Capital accounts-		Plant and Machinery		4,000
Rs		Freehold	•••	12,000
Young 20,000		Furniture	•••	1,000
Old 8,000		Stock	•••	7,000
	28,000	Sundry Debtors	••	18,090
Bills Payable	1,000	Bills Receivable	•••	8,000
Sundry Creditors	12,000	Bank	•••	990
	•	Cash	•••	10
	41,000			41,000

The position as at 31st March, 1931, was as follows :-

Cash at Bank 1 s. 1,500; Cash in hand Rs. 100; Sundry Creditors Rs. 19,000; Bills Payable Rs. 1,200; Sundry Debtors Rs. 16,000; Bills Receivable Rs. 2 800. The stock on hand amounted to Rs. 8,400 Young's drawings during the year had been Rs. 3,000 and Old had drawn Rs. 1,200. Young withdrew the sum of Rs. 4,000 on 30th September 1930, from his Capital account.

Depreciate Machinery and Plant by 5 per cent., Furniture by 10 per cent., and allow interest on partners' Capital at the rate of 5 per cent. per annum. Ignore interest on drawings.

SECOND HALF

5. The Balance on the books of the Dalhousie Club at 31st March 1931, were as follows:—

				Æ.	8	u.
Furniture at 31-3-30		•••	•••	84	0	
Furniture additions to	31-3-31	•••	•••	54	4	
Fixtures and Fittings,	31-3- 30	•••	•••	29	5	•
Billiard Table and Acc	essories, 3	1-3 30	•••	89	1	6
China, Glass, Cutlery	and Linen	, 31-3-30	•••	20	0	0
Stock in Restaurant,	31-3-30	•••	•••	3	0	11
Stock in Bar, 31-3-30	•••	•••		35	15	3
Restaurant Takings	•••	•••		1,616	17	4
Bar Takings		•••	•••	1,805	0	7
Billiards and sundry re		***	•••		13	_
Subscriptions from Me	inbers		•••	315	0	n
Interest on Deposit Ac	count		•••		15	в
Purchase for Restauran	nt	•••	•••	1,078		2
Purchase for Bar	•••	•••		829	9	4
Rent and Rates	•••	•••	•••	342		11
Wages	•••	•••	•••	623	8	0
Repairs and Renewals	of China,	Glass, C	utlery			
and Linen	•••	•••		179		1
Fuel and Light	•••	•••	•••	175	-	2
Sundry Expenses	•••	•••		134		1
Cash in hand, 31-3-31	•••	•••	***	18		0
Bank Balance, 31-3-31	•••	•••	•••	91		6
Bank Deposit, 31-3-31	•••	•••	•••	283	7	2
Debtors, 31-8-31	***	***	•••	74		4
Creditors, 81-8-81	•••	•••		178	11	5
Balance on Income and	Expenditu	re Accou	nt at		_	_
81-8-80	•••	•••		462	9	8

You are required to prepare separate Trading Accounts for the Restaurant and Bar and Income and Expenditure Account for the Year ended Stat

March, 1981, together with Balance Sheet at that date, after making adjustments of the following:—

The cost of maintenance of staff is estimated at £ 275, of which £ 250 is to be credited to Restaurant and £ 25 to the Bar.

Stock at 31st March, 1931: Restaurant, £2 6s. 5d.; Bar, £29 11s. 10d.

Depreciation: Furniture, 10 per cent.; Fixtures and Fittings, 5 per cent.; Billiard Table and Accessories, 15 per cent.

6. The following extract of costing information relates to a commodity for the six months ended 30th June, 1930:—

				Rs.
Purchases—Raw Materials	•••	•••	•••	80,000
Direct Wages	•••	•••	•••	25,000
Rent, Rates, Insurance and Wo	rks on cost		•••	10,000
Stock, 1st January, 1930-				•
Raw Materials	•••		•••	5,000
Finished Product, 1,000 tons		•••	•••	4,000
Stock, 30th June, 1930—				•
Raw Materials	•••	•••	•••	5,560
Finished Product 2,000 tons	•••	•••	•••	8 000
Work in progress, 1st January,	, 193 0	•••	•••	1,200
Work in progress, 30th June, 19	3 0		•••	4,000
Cost of Factory Supervision	•••	•••	•••	2,000
Sales, finished product	•••	•••	•••	75,000

Advertising, discounts allowed, and selling costs amount to annas four per ton sold.

16,000 tons of the commodity were produced during the period.

You are required to ascertain—(a) The value of the raw materials used; (b) The cost of the output for the period; (c) The cost of the turnover for the period; (d) The net profit for the period; (e) The net profit per ton of the commodity.

7. From the following balances of the Hindu Family Mutual Life Assurance, Ltd., as at 31st December, 1930, prepare a Revenue Account for the year ended 31st December, 1930, and a Balance Sheet as at that date.

			Rs.
Mortgages on Property in British Indi	8	•••	9,80 000
Loans on Policies with their surrender	val	ue	8,04 100
Deposit in Government Paper with the			-,
Currency		111	2 00 000
India Government Securities		•••	49,00,000
Other authorised investments	•••		20,50,000
		•••	
	•••	***	88,62, 000
7.72	•••	***	8, 00,000
Reversionary Interests purchased		•••	14,000
Agents, Bulances		•••	20,000
Outstanding Premiums	• • •	•••	70,000
Outstanding interests and dividends		•••	12,000
Interest accrued, but not payable			1,79,000
On him hand and at hants	•	•••	45,(00
Claims admitted but not paid	•	•••	1,03,000
Creditors for income-tax, commission,			50,000
O		***	
	•••	***	5,000
	•••		9,80,000
Life Assurance and Annuity Fund,	lst	January,	
1980	•••	•••	1,15,51.000
Premums, less Re-assurances	•••	•••	10,60,100
Consideration for annuities grunted	***	•••	27,000

					Rs.
Claims under	Policies pa	id an d o	utstanding-	. .	
By death	•••	•••	•••	•••	4,40,000
By Maturity	,		•••		2,04,000
Annuities	•••	•••	•••	•••	6,000
Surrenders	•••	•••	•••	•••	60,000
Bonuses in red	uction of	premium	s	•••	14,000
Interests, divid	lends and	rents	•••	•••	6,27,000
Income-tax on	above	•••	•••	•••	59,00 0
Commission		•••	•••	•••	81,000
Expenses of ma	anagemen	t	•••		1,05,000
Amounts trans	ferred to I	[nvestme	nt Reserve	•••	3 0 ,0,0 00
Life Assurance	and Ann	uity Fun	dat 31st D	ecem-	
ber, 1930	•••	•••	•••	***	1,29,79,100

The results of the trieunial valuation of liabilities at 31st December, 1930, disclose a liability under assurance and annuity contracts of Rs. 1,13,99,000. What is the significance of this figure in connection with the above accounts?

- 8. The Directors of a Limited Company propose, on the strength of a large balance at the Bank, to pay an interim dividend, subject to your approval as Auditor. Assuming that interim accounts have not been prepared, state what steps you would take before expressing an opinion on the proposal.
- 9. In what circumstances and by what authority may a Limited Company pay interest out of Capital? What statutory obligation in relation to their accounts is imposed on Companies who have made such payment of interest?

SECOND PAPER

(AUDITING)

The questions are of equal value.

Answer ANY SIX questions.

1. Submit a pro-forma Balance Sheet containing the following:—(a) Payment made in advance of the current year, (b) a Contingent Liability, (c) a Suspense Account. (d) Reserve for Bad Debts, (e) Reserve for discount on Book Debts, (f) Uncalled Capital of 50%.

Describe your duties, as auditor, with reference to the entries you submit.

2. State how the investments by a Limited Company should (1) be valued, and (2) stated in the published Balance Sheet when they are held for the following purposes:—

(a) Investment of the reserve fund, (b) Interest in subsidiary companies for trade purposes (c) Temporary investment of working Capital other-

wise unemployed, (d) Pledged security for a Bank Loan.

3. The Articles of Association of a limited Company state that the Managing Director is entitled to a commission of 2½% on the net trading profits and the Directors to a commission of 5% on the net divisible profits. As auditor to the Company, state briefly the principles that would guide you when verifying the amounts charged in the annual accounts under the articles quoted above. Illustrate your answer by means of pro forma accounts.

- 4. Describe and contrast (a) a Reserve which is a charge against profit, and (b) a Reserve which is an appropriation from profit. Give an illustration of a reserve of each class, and state how they should appear in the accounts of a Limited Company and describe, as auditors, your duties in relation thereto.
- 5. Name and describe the uses of the books (other than the ordinary financial books) which Limited Companies are under statutory obligation to keep. State the duties (if any) of an auditor with reference to all or any of the books you describe.
- 6. As auditor of a company, what are your duties as regards checking the stock valuation, when the directors do not want the words "as certified" to appear on the Balance Sheet?
- 7. What is the difference between Capital and Revenue profits? Is Capital Profit divisible among the shareholders of a Limited Company?
- 8. Is an auditor under any obligation to satisfy himself as to the adequacy of the provision made for bad and doubtful debts, and what steps would you take to satisfy yourself that the book debts are good or not?
- 9. The Directors of a limited Company, of which you are the auditor, desire to pay an interim dividend and ask your advice.

Describe the procedure you would recommend your client to adopt before declaring the dividend.

BANKING AND CURRENCY

Paper-Setters— { MR. A. C. SENGUPTA. M.A. DR. HARISCHANDRA SINHA, M.Sc., Ph.D.

Examiners— { Mr. B. Ramchandra Rao, M.A. Dr. Harischandra Sinha, M.Sc., Ph.D.

FIRST PAPER

The questions are of equal value.

Answer six guestions only.

1. What do you understand by the Clearing House system? What are its advantages? Explain the working of the system in this country.

2. Indicate the recent changes in the laws relating to Bank notes in

England.

- How are the current accounts of—
 - (a) a partnership;
- (b) two or more presons, not being partners, but having a joint account;

(c) an Agent;

with a Bank operated in India?

- 4. If you are working in a bank to what particulars will you devote your attention before passing a cheque for payment? Give your reasons.
- 5. In discounting bills for a customer, what are the points a banker should consider?
- 6. What do you understand by specie points? When are they effective? How do you account for the fluctuations of the German 'mark' beyond specie points after the Great War? How were exchange rates of German marks with foreign currencies determined then?
- 7. "The discount rate has thus an inportant bearing on the foreign exchanges." (Withers.) Explain.

- Explain in what different ways funds can be remitted from one place to another in India.
 - Write short notes on :-
 - Endursement in blank.
 - (b) General crossing of a cheque.
 - (c) Special crossing of a cheque.
 - (d) A cheque crossed "not negotiable."

SECOND PAPER

The questions are of equal value.

Answer ANY SIX questions.

- 1. "An extension of hire-purchase or instalment-selling system represents but a process of infliction." Discuss.
 - Explain clearly the meaning of any five of the following:-
- (a) aval; (b) accommodation bill; (c) arbitrage in foreign exchange; (d) "nostro" and "vostro" accounts; (e) gold bullion standard; (f) "exchange as per indorsement" bill; and (q) referee in case of need.
- (a) What is the connection between international indebtedness and the market rate of exchange?

(b) Explain why the Calcutta bankers' selling rates for T.T. and

O. D. are the same at present.

"There is a constant interaction between the rate of discount prevailing in a country and her foreign exchange." Fully discuss this statement, bringing out the nature of the interaction.

5. (a) Under what circumstances does the rate of exchange (i) rise above

the upper specie point, and (ii) fall below the lower specie point?

- (b) What are the principal causes of the export of bullion from a
- Define "Par rate of Exchange", and mention any two "Parities", which now differ from their quotations in 1920, explaining briefly the basic reason for the new quotations.

7. (a) Explain fully the maxim, 'Buy high, sell low.' When is this

maxim not applicable?

(b) What do you mean by the expressions "favourable" and "un-

favourable" in connection with foreign exchanges?

The exchange rate between the Argentine gold peso and the £ sterling for immediate T.T. is, say, 461d., and, by law, 44 gold pesos are equivalent to 100 paper pesos.

Assuming that the mail-time between Buenos Aires and London is 30 days, and that the rate of discount applicable is 42 per cent. per annum, work out an exchange between the paper peso and the £ sterling in the form of 90 d/s draft on London. Allow for days of grace, but stamps may be ignored.

9. Given a spot rate of exchange Culcutta on London of 1s. 534d., calculate the three months' forward rate of exchange. (Rate of interest in London is

4 per cent. per annum and in Calcutta 6 per cent.)

10. What is the meaning of the expression "Tel Quel Rate"? If the 3 months' rate Paris on London were 125.70 and the discount in Paris were 51 per cent. per annum, find the tel quel rate for a 2 months' bill for 3,000 france. and show what would have been the sterling value at that rate.

MODERN ECONOMIC HISTORY

Paper-Setters— { Mr. Bhujangabhushan Mukherjee, M.A. Rohinimohan Chaudhuri, M.A.

Examiners— { Mr. Harisadhan Chatterjee, M.A. Dr. Jitendraprasad Nivogi, M.A., Ph.D.

FIRST PAPER

The questions are of equal value.

Answer any SIX questions.

1. Trace the causes which led to the ultimate break-up of the Manorial system in England.

2. What was the nature of craft-guilds in England? Indicate the methods

by which they sought to achieve their ends.

3. Indicate briefly the socio-economic effects of the factory system in England, and show how far it upset the regional balance of power in the country.

4. What were the causes which led to the decline in English agriculture since 1875? How far do you think these causes were responsible for the rural depopulation of England?

5. Explain the doctrine of Laisser faire, and indicate the causes which led

to its ultimate abandonment in England

6. How far do you think the financial policy of Pitt was responsible for the growth of public debt in England? Explain in this connection his policy of a sinking fund for the repayment of debt.

7. Give a brief account of the movement for Tariff Reform-initiated by Chamberlain in 1903—as a revolt against the doctrine of one-sided free trade

in England.

8. What were the Navigation Acts? How far did they achieve the end in view? Discuss, in this connection, their economic and political effects.

9. How far. and in what ways, did the Great War of 1914 affect the

banking and monetary organization in Great Britain?

10. Is there any relation between Trade Unions and Guilds? How far do you think the Trade Unions have given a better and higher status to labour?

SECOND PAPER

The questions are of equal value.

Answer any six questions

1. Give an account of the various discriminating measures passed by the East India Company to promote British trade in India.

2. Describe the nature of transit duties levied by the East India Company on Indian merchandise. How did they affect the trade and industries of India?

3 Trace briefly the history of the development of tea industry in India. What were the various measures adopted by Government for the recruitment of labour for this industry?

4 Discuss the adequacy of the various measures passed by Government

to protect the interests of the tenants in India.

5. What were the circumstances that led to the adoption of a policy of discriminating protection in India? How far has this policy been successful?

6. Why is it that agricultural income in India has been exempted from the payment of income-tax? Were there occasions when this income was subjected to this tax ?

7. What are the causes of the recent industrial unrest in India? Do you think that the Trade Disputes Act of 1929 will offer a satisfactory remedy for

labour troubles in India?

8. Give an idea of the difficulties experienced by Government in improving

Indian agriculture.

9. What do you know of the Meston Award? How has it affected the

finances of the provinces?

10. Briefly indicate the circumstances that led to the establishment of the gold exchange standard in India. Why did this standard break down during the last war ?

ECONOMICS OF TRANSPORT

FIRST PAPER

The questions are of equal value.

Answer any FIVE of the following questions.

1. Distinguish carefully between :-

(a) Capital and Revenue Expenditure.

(b) Gross and Net Receipts.

(c) Terminal Charges and Conveyance Charges.

What are the main features of the Railways Act, 1921?

3. Discuss fully how far the separation of Railway Finance from the General Finance of this country has secured the advantages claimed by the Acworth Committee for this arrangement.

4. Examine closely the relative advantages and disadvantages of the Motor

Omnibus and the Tram for the carriage of passangers in Calcutta.

5. Discuss carefully the importance and place of the Inland Waterways of Bengal in the general transport system of the province.

6. Explain fully the various forms of 'discrimination' occurring on railways.

State briefly what are the chief economic characteristics of railways.

What were the principal changes made in 1922 in the Classification of Goods on Indian Railways?

SECOND PAPER

The questions are of equal value.

Answer any FIVE questions.

1. "The Law of the Survival of the Fittest is one which does not apply to

Examine this statement, and consider whether this is applicable to

other means of transport.

- 2. "The Railway Rates should be based on the principle of cost of service." Discuss this statement, and show what element of truth it contains.
- 3. Examine the importance of close co-operation between Railway companies and their customers. How can this be achieved? Explain the methods employed in this country to achieve this end.

4. Discuss the extent of State control that should be exercised over railways. Compare the conditions prevailing in India in this respect with those in England.

- 5. "Railways constitute a striking example of the Law of Increasing Returns."
 - Carefully examine this statement and discuss its limitations.
 - 6. Explain fully the meaning of the following :-
 - (a) The Long and Short Haul Clause,
 - (b) Charging what the traffic will bear,
 - (c) I ndue Preference.
- 7. "Low Railway Rates are impossible unless large railway wagons are used."

Examine the truth of this statement, specially in connection with the railways and trade of India.

8. Discuss State v. Company Management of railways in India.

PUBLIC ADMINISTRATION

Paper-Setters— { PROF. SATISCHANDRA RAY, M.A. MR. W. C. WORDSWORTH, M.A.

Examiners— { Prof. Satischandra Sen, M.A. Mr. Harischandra Sarkar, M.A.

FIRST PAPER.

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value.

Attempt only FIVE questions.

1. Described the administrative machinery of the Government of Bengal, separating the purely administrative from the financial side.

O1.

Describe the machinery for the administration of Justice in Bengal.

What are the nature and extent of the judicial powers exercised by executive officers?

2. Define the principles of self-government. To what extent are these principles applied to the government of local authorities in Bengal?

3. What are the functions of the British Parliament? What is its relation

to the Cabinet?

State the characteristics of the British Cabinet.

- 4. Describe the procedure by which a spending department in England obtains funds for the service of the department; and indicate the nature of the control exercised over public expenditure by the Chancellor of the Exchaquer, and the Comptroller, and Auditor General.
- 5. What were the relations between the House of Commons and the House of Lords in regard to financial matters before 1911, and how have those relations been changed since that year?

Define a Political Party.

"The Party system has grave defects; but it is indispensable in a Parliamentary system of Government." Explain.

Is there a Party Government in India?

- 7. Discuss the powers and position of the Crown in the British Constitution. Why does monarchy endure in democratic England?
- What is the genesis of the Act of 1832 for the reform of the House of Commons?

Describe the nature of the reforms of 1832 and of subsequent years.

SECOND PAPER.

Candidates are required to give their answers in their own words as far as practicable.

All questions are of equal value.

Attempt only FIVE questions.

1. Distinguish between the powers and functions of a Provincial Minister and a Member of the Executive Council.

In what way are the powers of the former fettered by the Government of India Act of 1919?

- 2. What is the procedure by which a Provincial Government obtains loan for local purposes from the Central Government, and to what purposes are these loans applied?
- 3. Indicate the sources of income of the Municipalities, and District and Local Boards in Bengal.

What are the legal restrictions upon the financial and administrative powers of municipal authorities?

- 4. Outline the main provisions of the Indian Income Tax Act of 1926.
- 5. What are the powers of a Provincial Government in regard to-
 - (a) famine expenditure;(b) raising loans;(c) taxation;

 - (d) legislation?
- In what respects are the legislative powers of the Central Legislature of India restricted by the British Parliament?

What are the powers of, and the relations between, the two Chambers of the Indian Legislature?

Or.

What should be the proper functions of the Second Chamber in a Legislature? What should be its composition in order that it may best perform these functions? (Alternative with Question 6.)

L. T. Examination,

1931

THEORY AND PRACTICE OF TEACHING IN RELATION TO MENTAL AND MORAL SCIENCE

Paper-Setter and Examiner—MR. GANGACHARAN DASGUPTA, B.A., B.T.

FIRST PAPER

The questions are of equal value.

Answer Question 1 and FOUR others.

- 1. Explain sensory motor are automatic action, law of forward conduction, types of attention, divisor nof labor in the cortex, effects of fatigue on nerve cells, physical bases of memory, and rhythm of attention.
- 2. Trace the development of the instinct of Play from infancy to adolescence, and make out a scheme of work and play in the class-room.
- 3. Show the place of Emotion and Sentiment in the character formation of school children.
 - 4. Discuss the psychology of Fatigue and its bearing on school life.
- 5. What is the span of Perception? Discuss how you would develop it in a reading lesson.
- 6. Consider the nature of school examinations in Bengal Schools. Does the system throw responsibility on the pupils in a way to develop their powers of will? Suggest remedies.
- 7. Try to make a list of your most important interests in order of their strength. What interests would you develop in a boy of 14 which will be most helpful to him? Give your reasons.
- 8. What use of imitation may be made in teaching (a) literature, (b) composition, (c) music, (d) good manners, and (e) morals?
 - 9. Discuss the following :-
- "The validity of reasoning tests depends ultimately on correct perceptions."
- 10. How are the powers of memory affected by (a) lack of repetition, (b) lack of vividness in learning, and (c) by lack of the right emotional attitude towards the memory material?
- 11. In a geography lesson of the lower forms of a Secondary School how would you develop the imagination of children?
- 12. What are the laws of habit formation? How would you develop (a) habits of attention, (b) of speech, and (c) of study?

METHODS OF TEACHING SPECIFIC SUBJECTS AND SCHOOL MANAGEMENT

Paper-Setter and Examiner—Mr. BINAYBHUSHAN SARKAR, B.A., B.T.

SECOND PAPER

Full Marks-100

The questions are of equal value.

Answer Two questions from Group A and THREE from Group B, of which the FIFTH must be one.)

GROUP A

- 1. Write a brief note on "Play way in Education." "The tendency of all new ventures in education is to introduce play-spirit into the working of the school." Show how this has been attempted in the Montess ri Scheme.
- 2. Justify the soundness of the principle: "Teach through as many senses of the children as you can." What are the dangers of appealing only to one sense?
- 3. How should a lesson be prepared? Mention the chief points that should be stressed in the notes of a lesson:
 - 4. How would you deal with the following cases? -
 - (a) A boy is very intelligent but pays little heed to the lesson of the teacher.
 - (b) Some boy of a class has done something wrong; the teacher wants to find out the real culprit; the whole class is reticent.
 - (c) Some children do not produce home work set by a teacher.

GROUP B

1. What steps would you take to teach Home Geography to the beginners? How would you teach children the meaning and use of the map and give them the idea of the scale?

2. What is meant by Nature Study? Indicate the value of "Excursions"

in a course of Nature Study. How would you conduit an Excursion?

3. It is generally found that the loud reading of our boys is anything but satisfactory. What are the chief defects noticed? Suggest ways for improvement.

4. Indicate your method of giving the first lesson in vulgar fraction. Explain diagrammatically the process of working out the following:—

$$\frac{2}{5} \times 3 = \frac{6}{5} .$$

- 5. Prepare teaching notes on one of the following:-
 - (a) Sher Shah (as king and administrator).

(b) "Things need air to burn."

(c) The work of a River.

(d) The life story of an old Rupee as told by itself.

30

SELECTED EDUCATIONAL CLASSICS

Paper-Setter and Examiner-Dr. SATYANANDA RAY, M.A., Ph.D.

THIRD PAPER

The figures in the margin indicate full marks.

- 1. Describe Rousseau's attitude towards bookwork. Can you hold the 15 same view with regard to our present day educational programme?
- 2. Which one of our senses, according to Rousseau, affects us most? 15 Is it possible to influence child life through the operation of one sense alone?
- 3. How will a child learn to draw if Rousseau's method is adopted by 20 a teacher?
- 4. Do you agree with Rousseau when he states that a child should 15 form no habit? State briefly the reasons for your agreement or disagreement.
- 5. Discuss, as fully as you can, the extent to which the present day home and school can build on "the discipline of consequences."
- 6. Criticize the following statement of John Dewey: "Rousseau said, 20 as well as did, many foolish things. But his insistence that education be based upon native capacities of those to be taught and upon the need of studying children in order to discover what these native powers are, sounded the key-note of all modern efforts for educational progress."
- 7. To what extent was Rousseau indebted to Locke? Illustrate your 20 answer with reference to at least two select passages from Emile.
 - 8. Write an essay on—

Either.

(a) The Development of Senses in children and their training.

Or,

(b) Freedom and Individuality in Child Training.

SELECTED COURSE IN MODERN ENGLISH PROSE AND POETRY

Paper-Setter and Examiner-Rev. A. Cameron, M.A., B.D.

FOURTH PAPER

The figures in the margin indicate full marks.

SECTION T

Answer question 1 and Two others.

- 1. Explain with reference to the context, any four of the following 20 passages:—
 - (a) I could play Ercles rarely, or a part to tear a cat in, to make all split.
 - (b) The nine-men's morris is fill'd up with mud; And the quaint mazes in the wanton green, For lack of tread, are undistinguishable:

7.

9.

Estimate the character of Nancy.

10.

ment.

Some true-love turn'd, and not a false turn'd true.

(c) Of thy misprision must perforce ensue

(d) How comes this gentle concord in the world. That hatred is so far from jealousy. To sleep by hate, and fear no enmity?

(e) a certain aim he took At a fair vestal, throned by the west; (f) The thrice three Muses mourning for the death Of learning, late deceased in beggary. 2. Discuss the statement that the fairies are the primary conception 15 of "A Midsummer-Night's Dream," and their action, the main action. 3. Comment on the poetic qualities of "A Midsummer-Night's 15 Dream." 4. Give your views on the delineation of character in 'A Midsummer-15 Night's Dream." 5. Examine the statement that "A Midsummer-Night's Dream" 15 shows a harmonicus blending of widely different elements. SECTION II Answer Question 6 and TWO others. 20 6. Explain, with reference to the context, any four of the following passages :-(a) No! he would rather trust to casualties than to his own resolve-rather go on sitting at the feast and sipping the wine he loved, though with the sword hanging over him and terror in his heart, than rush away into the cold darkness where there was no pleasure left. (b) We can send black puddings and pettitoes without giving them a favour of our own egoism; but language is a stream that is almost sure to smack of a mingled soil. (c) As the child's mind was growing into knowledge, his mind was growing into memory: as her life unfolded, his soul, long stopified in a cold narrow prison, was unfolding too, and trembling gradually into full consciousness. (d) Let even an affectionate Goliath get himself tied to a small tender thing, dreading to hurt it by pulling, and dreading still more to snap the cord, and which of the two, pray, will be master? (e) I suppose it is the way with all men and women who reach middle age without the clear perception that life never can te thoroughly joyous: under the vague duliness of the grey hours, dissavisfaction seeks a definite object, and finds it in the privation of an untried good. (f) That quiet mutual gaze of a trusting husband and wife is like the first moment of rest or refuge from a great weariness or a great dam ernot to be interfered with by speech or action which would distract the sensations from the fresh enjoyment of repose. "Silas Marner" is a story of moral recovery. Discusse this state-15 Indicate the part played by Providence in "Silas Marner." 15 Give the substance of Mrs. Winthrop's religious views. 15

B. T. Examination, 1931

THEORY AND PRACTICE OF TEACHING IN RELATION TO MENTAL AND MORAL SCIENCE

Paper-Setter and Examiner-MR. J. M. SEN, M.A., B.Sc.

FIRST PAPER

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Attempt ANY FIVE questions.

1. Give a brief description of the nervous system, and discuss the relation which exists between the brain and the mental activity.

2. Compare Instincts, Reflexes, and Habits and discuss the value of each

of these factors in life in the up-bringing of a child.

3. Make the educational applications of the statement 'Conception without perception is empty: Perception without conception is blind.'

4. Discuss the value of (a) Suggestion, and (b) Imitation, in education of

a child.

- 5. Define 'Character', and distinguish it from 'Disposition' and 'Temperament'. Should a school take up the responsibility for moral instruction and character training of its pupils? If so, how should the responsibility be met?
- 6. In the school of the old type, repression was the rule. It is now the fashion to decry compulsion and discipline. To what extent is it possible to allow free development of the child during the course of his education in a school?

7. Discuss the practical uses of some of the modern "Mental tests."

8. Examine the causes of boredom in a class. Shew what you would do to-avoid it. How would you distinguish it from mental fatigue?

METHODS OF TEACHING SPECIFIC SUBJECTS AND SCHOOL MANAGEMENT

Paper-Setter and Examiner-Mr. Manoranjan Mitra, M.A.

SECOND PAPER

The questions are of equal value.

Answer Two questions from each part.

PART I

1. What are the determining factors of a curriculum? Illustrate your answer by a critical examination of the existing primary and secondary school curricula.

2. What should be the aims of civic instruction in Bengal? Prepare a course of civic instruction and training suitable for the schools of Bengal.

3. Discuss the scope and purpose of the present-day movement in favour of greater freedom for children in school. Suggest ways of modifying the traditional organisation and class teaching in a secondary school in order to allow such freedom.

4. What is the value of marking as a measure of school-work? Examiners vary in the distribution of marks,-how can you reduce this variation ?

Describe methods of measuring the improvement of pupils in their class work.

PART II

1. Attempt a classification of the offences of school children. Trace their probable causes, and suggest ways of treatment.

2. Enumerate the common physical defects of school children in Bengal.

Trace their probable causes, and suggest remedies.

3. Outline the duties of a hostel superintendent.

4. What points should you bear in mind in the inspection of a school? Indicate how you would carry out the inspection, and write a report.

PART III

1. Write short notes on the pedagogy of reading under the heads (a) aim, (b) materials, (c) hygiene, (d) individual differences, (e) methods of teaching.

2. Prepare a scheme of work for Class VIII on any one of the following topics, and indicate the general procedure of work: (a; the agricultural development of Bengal, (b) specific gravity, (c) the forms of narration and sequence of tenses in English, (d) the League of Nations, (e) the monsoons.

3. Write notes on any five of the following: (a) the use of text-bocks, (b) hobbies of school children, (c) motivation of school work, (d) home-work, (e) notes of lessons—their use and abuse, (f) vocational education in a high school, (g) self-government in a school, (h) correction of mistakes in spelling, (1) correction of mistakes in pronunciation

4. Describe types of apparatus for teaching Arithmetic in the primary

stages, and give suggestions for their manufacture.

HISTORY OF EDUCATIONAL IDEAS AND METHODS

Paper-Setter and Examiner-Mr. KSHETRAGOPAL DASGUPTA, B.A., BARRISTER-AT-LAW

THIRD PAPER

The questions are of equal value

Only six questions are to be attempted. FOUR should be selected from Group I and Two from Group II.

GROUP I

1. Give an account of the University of Nalanda or Vikramsila with special reference to its ideals, organization, curriculum, and methods of teaching. Can our modern universities learn anything from them?

2. What were the strong points in Athenian education? How far

have we incorporated them into our educational system?

- 3. Write notes on any two of the following:
 - (a) The institution Chivalry;

 - (b) The growth of mediæval universities and grammar schools;
 (c) The intellectual contribution of the Arabs in the Middle Ages.
- Estimate the importance of the work done by Vittorino da Feltre and Melanchthon.
- 5. Describe the educational conditions in Europe at the time when Rousseau wrote the Emile. Which of his principles have been accepted and which rejected by the modern educational world?
 - 6. Write notes on any two of the following:
 - (a) The Perse School.

 - (b) The Gary School.
 (c) The School at Moga.
 (d) Shantiniketan (School).

GROUP II

- 7. Describe a typical High School in Germany at the present day and compare it with one in India, pointing out features in the former that you would advocate for the latter.
- "The problem of America has been to make citizens loyal to herself out of a heterogeneous population coming from different nationalities." Show, with special reference to the curriculum, the general tone and activities of an American Secondary School, as to how far this problems has been solved.
- 9. What are the salient features of the English Public School? Do you know the grounds on which attacks have been made on it in recent times? Can you suggest remedies?
- 10. What is the Adult Education Movement? Give an account of the work done in this connection in England and India, and suggest ways in which an impetus can be given to the movement in this country.
- 11. What attempts have been made, and what measure of success achieved, in introducing mass education in India? What are the obstacles to it in (a) urban, and (b) rural areas? Have you any suggestions to offer?

SELECTED EDUCATIONAL CLASSICS

Paper-Setter & Examiner-Prof. JNANBANJAN BANERJEA. M.A., B.L.

FOURTH PAPER

The figures in the margin indicate full marks.

N.B.—Answer Questions 3, 4 and 5, and either 1 or 2.

1. It has been said that Spencer undertook to shake rudely certain habitual convictions by which the profession of teaching had been long characterised. What were those convictions? How did Spencer shake them?

15

Discuss fully, after Spencer, the questions as to what knowledge fits a man for the discharge of his functions as citizen (or in other words, for the regulation of social and political conduct) and for the enjoyments of Nature, Literature, and the Fine Arts in all their forms.

2. How does Spencer establish that throughout youth, as in early childhood and in maturity, the process of education should be one of self-instruction and the mental action induced should be throughout intrinsically grateful?

Or.

What are according to Spencer, the true sims and methods of moral education? Examine his views on these.

- 3. On what lines should the education of guardians proceed according to Plato? How does he explain the purpose of education by the Figure of the Cave? How is the revolution of the soul necessary for true education brought about according to bim?
- 4. Develop the ideas embodied in the following sentences and 20 examine them:—
- (a) "Easy come easy go", is a saying as applicable to Knowledge as to Wealth.

(b) Like political constitutions, educational systems are not made, but grow.

(c) In the world of Knowledge, the essential Form of Good is the

limit of our inquiries.

- (d) Knowledge in the abstract is knowledge simply of the knowable, or of whatever that be called which is the object of knowledge; but a particular science, of a particular kind, has a particular object of a particular kind.
 - 5. Write an essay on one of the following subjects:-

(a) Spencer as a true eductional pioneer.

(b) The study of science as a necessary part of Secondary School education.

(c) Technical Education—its value and utility.

(d) The desirability and possibility of making Primary Education compulsory in Bengal.

(e) A system of education for Bengalees based on their needs and the genius of the nation.

(f) German and American Ideals on educational matter—a comparison and a contrast. 15

15

M. A. Examination. 1931

ENGLISH

FIRST PAPER

The questions are of equal value.

First Half

Examiner—Mr. BIJAYGOPAL MUKHERJEE, M.A.

N.B.-Answer ANY THREE questions.

1. Give some account of the pre-Christian poems of the Anglo-Saxon period. How far, in your opinion, do they come up to the accepted standards of epic and lyric poetry?

2. Characterise Langland as a poet, and indicate clearly the medieval and

modern elements in his poetry.

3. To what extent was early English tragedy influenced by the Senecan model? How do you account for the weakening of this influence?

- 4. Give a short account of the prose romances of the Elezabethan age, and indicate their historical importance.
 - 5. Show your acquaintance with any two of the following:-

(a) The Jew of Malta; (b) The Four P's; (c) Ralph Roister Doister; (d) Utopia; (e) Sir Gawain and the Green Knight; (f) Tottel's Miscellany.

Second Half

Examiner-Mr. Kumudbandhu Ray, M.A.

Answer ANY THREE questions.

- 1. Indicate the main themes and characteristics of Caroline poetry. Give illustrative references.
- 2. Write a short essay on the Comedy of the Restoration period, and show bow it differs from that of the age of Elizabeth.

Compare Richardson and Fielding as noveli-ts. How do they differ in their aims and methods from the great Victorian novelists?

Write a critical estimate of any one of the following writers:-

Sir Thomas Browne, Swift, Donne, Charlotte Bronte.

Point out the main characteristics of pre-Raphaelite poetry, and show how pre-Raphaelitism represents a certain phase of the general romantic impulse of the age.

5. Bring out some of the dominant features of modern English drama,

with special reference to the works of Galsworthy and G. B. Shaw.

SECOND PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Mr. RAMAPRASAD MOOKERJEE, M.A., B.L.

1. 'Judged purely as a drama, King Lear cannot rank with Othello, or even Macbeth...It would therefore be more exact to say of King Lear that it is not Shakespeare's greatest play, but that it is the work which is the most stupendous expression of his genius.' Comment.

16

Or.

Examine how far the character of Iago is an illustration of 'motiveless malignity' (Coleridge).

16 14

2. 'If the School for Scandal does not tell us anything that is new or profound about human nature, it is a brilliant exposition of the character which an idle, overcivilised society develops.' Discuss and illustrate.

) -

Analyse the character of Jaffeir in Venice Preserved and show how 14 the tragedy in the drama is due to it.

3. Explain, with reference to the context, any two passages from each of the following groups:—

A.

12

- (a) Put out the light, and then put out the light:
 If I quench thee, thou flaming minister,
 I can again thy former light restore,
 Should I repent me: but once put out thine.
 Thou cunning at pattern of excelling nature,
 I know not where is that Promethean heat,
 That can thy life relune. When I have
 pluck'd thy rose.
 I cannot give it vital growth again,
 It needs must wither:—I'll smell it on the tree.
- (b) Thou think'st 'tis much that this contentious storm Invades us to the skin: so 'tis to thee;
 But where the greater malady is fix'd
 The lesser is scarce felt. Thou'd'st shun a bear:
 But if thy flight lay toward the raging sea.
 Thou'dst meet the bear i' the mouth. When
 the mind's free.
 The body's delicate: the tempest in my mind
 Doth from my senses take all feeling else,
 Saye what beats there.
- (c) —pat he comes, like the catastrophe of the old comedy: my one is villaneous melancholy, with a sigh like Tom o' Bedlam.
 - (d) Benedick .- What, my dear Lady Disdain! are you yet living?

Beatrice.—Is it possible disdain should die while she has such meet food to feed it as Signior Benedick? Courtesy itself must convert to disdain, if you come in her presence.

(e) She speaks poniards, and every word stabs: if her breath were as terrible as her terminations, there were no living near her; she would infect to the north star. I would not marry her, though she were endowed with all that Adam had left him before he transgressed.

B.

- (a) You want to lead
 My reason blindfold, like a hampered lion,
 Checked of its nobler vigor; then, when baited
 Down to obedient tameness, make it couch;
 And show strange tricks which you call signs of faith.
 So silly souls are gulled and you get money.
- (b)in all cases of slander currency, whenever the drawer of the lie was not to be found, the injured parties should have a right to come on any of the indorsers
- (c) 'Be just before you're generous.' Why, so I would if I could; but Justice is an old, lame, hobbling beldame, and I can't get her to keep pace with Generosity for the soul of me.

SECOND HALF

Examiner-Mr. Mohinimohan Bhattacharyya, M.A., B.L.

1. Discuss the attitude of Benedick and Beatrice towards one another. 10 as gradually unfolded in the course of the play.

Or.

Indicate the part played by Dogberry and Verges in Much Ado About Nothing.

- 2. Answer any two of the following:-
 - (a) King Richard II: I have been studying how I may compare This prison, where I live, unto the world: And for because the world is populous And here is not a creature but myself, I cannot do it; yet I'll hammer it out. My brain I'll prove the female to my soul; My soul, the father: and these two heget A generation of still-breeding thoughts, And these same thoughts people this little world. In humours like the people of this world, For no thought is contented. The better sort, As thoughts of things divine, are intermix'! With scruples, and do set the word itself Against the word: As thus,-'Come, little ones;' and then again,-'It is as hard to come, as for a camel To thread the postern of a needle's eye.' Thoughts tending to ambition, they do plot Unlikely wonders; how the e vain weak nails May tear a passage through the flinty ribs Of this hard world, my ragged prison walls; And, for they cannot, die in their own pride.

Give briefly the sense of the passage and indicate the mood of the speaker.

(b) The First Chorus in Henry V:
Ofor a muse of fire, that would ascend
The brightest heaven of invention!
A kingdom for a stage, princes to act
And monarchs to behold the swelling scene!

But pardon, gentles all, The flat unraised spirits that have dated 20

82--81

8

On this unworthy scaffold to bring forth So great an object; can this cock-pit hold The vasty fields of France? or may we cram Within this wooden () the very casques That did affright the air at Agincourt? O, pardon! since a crooked figure may Attest in little place a million; And 1-t us, ciphers to this great accompt, On your imaginary forces work.

Comment, on the basis of the information given in this passage, on the limitations of the Elizabethan stage.

(c) From Marlowe's Tamburlaine the Great to Cosore, the king 10 whom he dethroned.

Tamburlaine :-

The thirst of reign and sweetness of a crown, That caused the eldest son of heavenly Ops To thrust his doting father from his chair, And place himself in the empyreal heaven, Moved me to manage arms against thy State. What letter precedent than mighty Jove? Nature, that framed us of four elements Warring within our breasts for regiment, Doth teach us all to have aspiring minds: Our souls, whose faculties can comprehend The wondrous architecture of the world, And measure every wandering planet's course Still climbing after knowledge infinite, And always moving as the restless spheres, Will us to wear ourselves, and never lest, Until we reach the ripest fruit of all, That perfect bliss and sole felicity, The sweet fruition of an earthly crown.

Give the sense of the passage and discuss how far it reflects the character of the age in which it was written.

THIRD PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Mr. Amiyakumar Sen, M.A.

1. (a) (i) Explain with reference to the context :-

Or I cm like a stream that flows
Full of the cold springs that arose
In morning lands, in distant hills;
And down the plain my channel fills
With melting of forgotten snows.
Voices I have not heard, possessed
My own fresh songs; my thoughts are blessed
With relics of the far unknown.
And mixed with memories not my own
The sweet streams throng into my breast.

(ii) Discuss, with reference to this and other illustrative passages in Binyon's Selections, the influence of scientific thought on Modern English poetry.

Or,

(b) (i) Explain :--

'And when we die
All's over that is ours; and life burns on
Through other lovers, other lips,' said I
'Heart of my heart, our beaven is now, is
won!'
'We are earth's best, that learnt her lesson
here.
Life is our cry. We have kept the faith!'
we said;
We shall go down with unreluctant tread
Rose-crowned into the darkness!...Proud we
were
And laughed, that had such brave things to
say,
And then you suddenly cried, and turned

(ii) Write, with reference to passages in Binyon's Selections, a short note on 'Love in Modern English, Poetry.'

2. (a) (i) Annotate :--

away.

15

In Friendship false, inplacable in hate, Resolved to ruin or rule the state; To compass this the triple bond he broke, The pillars of the public safety shook And fitted Israel for a foreign yoke; Then seized with fear, yet still affecting fame, Usurped a patriot's all-atoning name.

(ii) Describe in full the character referred to in the above passage. How far is this portrait true to its original?

Or.

(b) (i) Explain :-

For therein stands the office of a king, His honour, virtue, merit, and chief praise, That for the public all this weight he bears Yet he who reigns within himself, and rules Passions, desires, and fears, is more a king—

And who attains not ill aspires to rule Cities of men or headstrong multitude, Subject himself to anarchy within, Or lawless passions in him, which he serves.

- (ii) 'Milton's Jesus is a Puritan.' Examine the above statement with reference to your text.
- 3. "If the First Book (of the Faerie Queen) drew the portrait of the English Christian, this (the second) Book may be said to draw that of the English gentleman.' Justify or criticise the above statement.

Ur,

(a) Sketch, after Spensor, the character of the Palmer. What is its allegorical significance?

7

1.

(b) Explain :--

'Before the beginning of years
There came to the making of man
Time, with a gift of tears;
Grief, with a glass that ran;
Pleasure, with pain for leaven;
Summer, with flowers that fell;
Remembrance, fallen from heaven
And madness, risen from hell;
Strength, without hands to smite;
Love that endures for a breath;
Night, the shadow of light;
And life, the shadow of death.'

SECOND HALF

Examiner—Dr. H. C. Mookerjee, M.A., Ph.D.

Either,

Discuss Swinburne as a poet of the sea, illustrating your answer by quotations from or references to your text.

Or,

Show how Swinburne's technique was a revelation, 'in comparison to whose absolute sway over verse Tennyson's perfections seem tame and studied, the impetuosity and torrent of whose passionate imagery leave the raptures of Shelley cold as the shimmer of moon-beams on still water.'

2. Give the substance of any two of the following, pointing out its 40

central idea, and add a note on its literary characteristics :-

A.

I.

Death, if thou wilt, fain would I plead with thee: Canst thou not spare, of all our hopes have built, One shelter where our spirits fain would be, Death, if thou wilt?

No dome with suns and dews impearled and gilt, Imperial: but some roof of wildwood tree, Too mean for sceptre's heft or swordblade's hilt.

Some low sweet roof where love might live, set free From change and fear and dreams of grief or guilt; Canst thou not leave life even thus much to see,

Death, if thou wilt?

II.

Man, what art thou to speak and plead with me?
What knowest thou of my workings, where and how
What things I fashion? Nay, behold and see,
Man, what art thou?

Thy fruits of life, and blossoms of thy bough,
What are they but my seedlings? Earth and sea
Bear nought but when I breathe on it must bow.

Bow thou too down before me: though thou be Great, all the pride shall fade from off thy brow, When Time and strong Oblivion ask of thee,

Man. what art thou ?

III.

Death, if thou be or be not, as was said.

Immortal; if thou make us nought, or we

Survive: thy power is made but of our dread,

Death, if thou be.

Thy might is made out of our fear of thee:
Who fears thee not, bath plucked from off thine
head

The crown of cloud that darkens earth and sea.

Earth, sea, and sky, as rain or vapour shed, Shall vanish; all the shows of them shall flee: Then shall we know full surely, quick or dead, Death, if thou be.

B.

Beneath the shabow of dawn's aerial cope, With eyes enkil died as the sun's own sphere, Hope from the front of youth in godlike cheer Looks Godward, past the shades where blind men grope

Round the dark door that prayers nor dreams can

ope,

And makes for joy the very darkness dear That gives her wide wings play; nor dreams that fear

At noon may rise and pierce the heart of hope.

Then, when the soul leaves off to dream and yearn,
What once being known leaves time no power to
appal:

Till youth at last, ere yet youth be not, learn The kind wise word that falls from years that fall— 'Hope thou not much, and fear thou not at all.'

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She sits upon a combstone in the shade; One flake of sunlight, falling thro' the veils Of quivering poplars, lights upon her hair, Shot golden, and across her candid brow Thus in the pleasant gloom she holds the eye, Being life amid piled up remembrances Of the tranquil dead.

One hand, dropped lightly down, Rests on the words of a forgotten name: Therefore the past makes glad to stay her up. Closed in, walled off: here's an oblivious place, Deep, planted in with trees, unvisited: A still backwater in the tide of life. Life flows all round; sounds from surrounding streets, Laughter of unseen children, roll of wheels, Cries of all vendors—So she sists and waits And she rejoices us who pass her by, And she rejoices those who here lie still, And she makes glad the little wandering airs, And doth make glad the shaken beams of light That fall upon her forehead: all the world Moves round her, sitting on forgotten tombs And lighting in to-morrow. She is Life: That makes us keep on moving, taking roads,

Hauling great burdens up the unending hills.
Pondering senseless problems, setting sail
For undlscovered anchorages. Here
She waits, she waits sequestered among tombs,
The sunlight on her hair. She waits, she waits
The secret music, the resolving note
That sets in tune all this discordant world
And solves the riddles of the Universe.

FOURTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

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Examiner-MR. RAJANIKANTA GUHA, M.A.

1. In noticing the Areopagitica, a Speech of Mr. John Milton for the liberty of unlicensed Printing, Johnson says, "The danger of such unbounded liberty, and the danger of bounding it, have produced a problem in the science of government, which human understanding seems hitherto unable to solve."

How has Milton tackled this problem?

Or.

Assign the place of the Areopagitica in the history of Freedom of Thought.

2. Form an estimate of Johnson as a critic of poetry.

Or

- 'Was Dryden a great poet?' Discuss this question with reference to Johnson's views in his Lives of the Poets.
- 3. Elucidate the ideas underlying one of the following passages, and 20 add a critical commentary on either its literary style or its thought:—
- (a) God appoints to every one of His creatures a separate mission, and if they discharge it honourably, if they quit themselves like men and faithfully follow that light which is in them, withdrawing from it all cold and quenching influence, there will assuredly come of it such burning as, in its appointed mode and measure, shall shine before men, and be of service constant and holy. Degrees infinite of lustre there must always be, but the weakest among us has a gift, however seemingly trivial, which is peculiar to him, and which worthily used will be a gift also to his race for ever.

If, on the contrary, there be nothing of this freshness achieved, if there be neither purpose nor fidelity in what is done, if it be an envious or powerless imitation of other men's labours, if it be a display of mere manual dexterity or curious manufacture, or if in any other mode it show itself as having its origin in vanity,—Cast it out. It matters not what powers of mind may have been concerned or corrupted in it, all have lost their savour, it is worse than worthless—perilous,—Cast it out.

(b) The vice of the modern notion of mental progress is that it is always something concerned with the breaking of bonds, the effacing of boundaries, the casting away of dogmas. But if there be such a thing as mental growth, it must mean the growth into more and more definite convictions, into more and more dogmas. The human brain is a machine for coming to conclusions; if it cannot come to conclusions it is rusty. When we hear of a man too clever to believe, we are hearing of something

having almost the character of a contradiction in terms. It is like hearing of a nail that was too good to hold down a carpet; or a bolt that was too strong to keep a door shut... Man can be defined as an animal that makes dogmas. As he piles doctrine on doctrine and conclusion on conclusion in the formation of some tremendous scheme of philosophy and religion, he is, in the only legitimate sense of which the expression is capable becoming more and more human. When he drops one doctrine after another in a refined scepticism, when he declines to the himself to a system, when he says that he has outgrown definitions, when he says that he disbelieves in finality, when in his own imagination, he sits as god, holding no form of creed but contemplating all, then he is by that very process sinking slowly backwards into the vagueness of the vagrant animals and the unconsciousness of the grass. Trees have no dogmas. Turnips are singularly broad-minded.

SECOND HALF

Examiner—Prof. J. R. Banerjea, M.A., B.L.

Answer Question 1 or 2, Question 3 or 4, and Question 5.

1. Sartor Resartus 'is in essence a tilt against shams of every kind.' Fully develop the thought embodied in this sentence and illustrate it by references to the work.

Or.

- It has been said of Sartor Resartus—'His gospel of work, of action, is here: here also is his belief in personality.' Amplify and examine this statement.
 - 2. Explain any two of the following passages:-

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- (a) Which of your Philosophical Systems is other than a dream-theorem; a net quotient, confidently given out, where divisor and divident are both unknown? What are all your national Wars, with their Moscow Retreats, and sanguinery hate-filled Revolutions, but the Somnambulism of uneasy Sleepers? This dreaming, this Somnambulism is what we on Earth call Life.
- (b) Great Men are the inspired (speaking and acting) Texts of that divine Book of Revelations, whereof a Chapter is completed from epoch to epoch, and by some named History; to which inspired Texts your numerous talented men, and your innumerable untalented men, are the better or worse exegetic Commentaries, and wagonload of too-stupid, "heretical or orthodox, weekly Sermons. For my study, this inspired Texts themselves!
- (c) Facts are engraved Hierograms, for which the fewest have the key. And then how your Blockhead studies not their Meaning; but simply whether they are well or ill-cut, what he calls Moral or Immoral! Still worse is it with your Bungler: such I have seen reading some Rousseau, with pretences of interpretation; and mistaking the ill-cut Serpent of-Eternity for a common poisonous reptile.
- 8. "If I were asked to state in one word the cause of the failure of our civilisation, I should answer "Secularism"." How does Dean Inge establish this?

Οτ,

Show how Dean Inga proves that the alleged law of progress has no scientific basis whatever and that, the superstition of progress has also invaded and vitiated history, political science, philosophy, and religion.

- 4. Explain any three of the following passages?—
- (a) In the 'Laws' he goes further in accepting the reign of law as a necessity, though he never deviates from his conviction that it is pie

aller, as Christ said that parts of the Mosaic Law were instituted 'because of the hardness of your hearts'.

(b) Some have said that human beings are not moved by abstractions;

the truth is that they are seldom moved by anything else.

(c) If 'bistory is a good aristocrat', science seemed to be a very heart-less kind of Tory, or even a Prussian militarist.

(d) Cosmic nature is no school of virtue, but the head quarters of the

enemy of ethical nature.

- (e) The historian is a natural snob; he sides with the Gods against Cats, and approves the winning side.
- 5. Bring out clearly the thought contained in one of the following extracts:—

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(a) The ground of a man's joy is often hard to hit. It may hinge at times upon a mere accessory, it may reside in the mysterious inwards of psychology. It may consist with perpetual failure, and find exercise in the continued chase. It has so little bond with externals (such as the observer scribbles in his notebook) that it may even touch them not; and the man's true life, for which he consents to live, lies altogether in the field of fancy. The clergyman, in his spare hours, may be winning battles, the farmer sailing ships; all leading another life; like the poet's house-builder, who after all, is cased in stone.

'By his fireside, as impotent fancy prompts, Rebuilds it to his liking.'

In such a case the poetry runs underground. The observer (poor soul, with his documents!) is all abroad. For to look at the man is but to court deception. We shall see the trunk from which he draws his nourishment; but he himself is above and abroad in the green dome of foliage, hummed through by winds and nested in by nightingales. And the true realism were that of the poets, to climb up after him like a squirrel, and catch some glimpse of the heaven for which he lives. And the true realism, always and everywhere, is that of the poets: to find out where joy resides, and give it a voice far beyond singing. For to miss the joy is to miss all. In the joy of the actors lies the sense of any action. That is the explanation, that the excuse. And hence the haunting and truly spectral unreality of realistic books. In each we miss that rainbow work of fancy that clothes what is naked and seems to ennoble what is base; each is true, each inconceivable; for no man lives in the external truth, but in the warm, phantasmagoric chamber of his brain, with the painted windows and the storied walls.

(b) Character is doubtless of far more importance than mere intellectual opinion. We only too often see highly rationalised convictions in persons of weak purpose or low metives. But while fully recognising this, and the sort of possible reality which lies at the root of such a phrase as 'godless intellect' or 'intellectual devils'—though this phrase has no reality when it is used by self-seeking politicians or prelates-yet it is well to remember the very obvious truth that opinions are at least an extremely important part of character. As it is sometimes put, what we think has a prodigiously close connection with what we are The consciousness of having reflected seriously and conclusively on important questions, whether social or spiritua, augments dignity while it does not lessen humility. In this sense, taking thought can and does add a cubit to our stature. Opinions which we may not feel bound or even permitted to press on other people, are not the less forces for being latent. They shape ideals, and it is ideals that inspire conduct. Finally, unless a man follows out ideas to their full conclusion without fear what the conclusion may be, it is imposs;ble that he should acquire a commanding grasp of principles. And a commanding grasp of principles, whether they are public or not, is at the very root of coherency of character. It raises mediocrity near to a level with the highest talents, if these talents are in company with a disposition

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that allows the little prudences of the hour incessantly to obscure the persistent laws of things. These persistencies, if a man has once satisfied himself of their direction and mastered their bearings and application, are cogent and valuable as a guide to conduct.

(GROUP A)

FIFTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Mr. Suhaschandra Ray, M. A.

- 1. Explain three of the following extracts with reference to the 21 context:—
 - (i) And in his gere, for al the world he ferde Nat oonly lyk the loveres maladye Of Hereos, but lyk manye.
 - (ii) He poureth pesen upon the hacches slider; With pottes ful of lym they goon togicer.
 - (iii) Wel coude he stelen corn and tollen thries, And yet he hadde a thombe of gold, pardee.
 - (iv) He knew the cause of everich maladye, Were it of hoot, or cold, or movete, or drye, And where they engendred and of what humour.
 - (v) Ther thise goddes laye and slepe, Morpheus, and Eclympasteyre, That was the god of slepes heyre.
 - 2. Write notes on three of the following:-

shippes hoppesteres; fyn scarlet reed; a goliardeys; the tempest at hir hoom comynge; the kinges meting Pharao.

- 3. Answer one of the following questions:-
- (a) Try and give a fuller sketch than what you find in the Prologue, of two of the pilgrims assembled at the Tabard, filling in details suggested by what they say or do on the road to Canterbury.
- (b) Discuss how far typical and individual traits are combined in Chaucer's delineation of the characters in the Prologue.
- (c) What use does Chaucer make in the Knyghtes Tole, of the conventional ideas of Courtly Love?
 - (d) Write a note on Chaucer's manner of handling his sources.
- (e) Discuss Chaucer's attitude to the church of his times, with special reference to his portraiture of the Regular and the Secular Clergy in the Prologue.

SECOND HALF

Examiner-Prof. N. K. SIDDHANTA, M.A.

Either.

1. Detail, with illustrations, the principal methods employed in 10 English for the making of new words.

Or.

Write notes on :-

- (a) The transition from grammatical to natural gender in English;
- and (b) the conflict of dislects in the fourteenth century.
- 2. Translate into Modern English prose two of the following 40° passages:—
 - (a) O blisful light, of whiche the bemes clere Adorneth at the thridde hevene faire!
 O sonnes leef, O Joves doughter cere,
 Plesaunce of love, O goodly deb naire,
 In gentil hertes ay redy to repaire!
 O verray cause of hele and of gladnesse,
 Y-heried be thy might and thy goodnesse!
 In hevene and helle, in erthe and salte see
 Is felt thy might, if that I wel descerne;
 As man, brid, best, fish, herbe and grene tree
 Thee fele in tymes with vapour eterne,
 God loveth, and to love wol nought werne;
 And in this world no lyves creature,
 With-outen love, is worth, or may endure.

[werne = forbid.]

(b) O hateful harm! condicion of poverte!

With thurst, with cold, with hunger so confounded!

To asken help thee shameth in thyn herte;

If thou noon aske, with nede artow so wounded,

That verray nede unwrappeth al thy wounde hid!

Maugree thyn heed, thou most for indigence

Or s'ele, or hegge, or borwe thy despence!

Thou blamest Crist, and seyst ful bitterly,

He misdeparteth richesse temporal;

Thy neighebour thou wytest sinfully,

And seyst thou hast to lyte, and he hath al.

Parfay, seistow, somtyme he rekne shal,

Whan that his [cors] shall brennen in the glede,

For he noght helpeth needfulle in his nede.

[wytest = blamest.]

(c) Tragedie is to seyn a certeyn storie, As olde bokes maken us memorie, Of him that stood in greet prosperite And is y-fallen out of heigh degree Into miserie, and endeth wreechedly. And they ben versified comunly Of six feet, which men c'epe exametron In prose eek been endyted many oon, And eek in metre, in many a sondry wyse. Lo! this declaring oughte y-nough suffise. Now herkneth, if yow lyketh for to bere; But first I yow biseke in this matere, Though I by ordre telle nat thise thinges, Be it of popes, emperours, or kinges, After hir ages, as men writen finde. But telle hem som bifore and som bibinde

(GROUP A)

SIXTH PAPER

The questions are of equal value.

Answer THREE questions in EACH half.

FIRST HALF

Examiner—Mr. RABINDRANARAYAN GHOSH, M. A.

1. The want of lyrics was the great omission of the Augustan age. Who were the poets of the transition period by whom the omission was principally made good? Estimate the value of their lyrical contribution.

- 2. Discuss the appropriateness of the title of the 'Lyrical Ballads' and estimate its importance in the history of the Romantic Revival.

 3. Comment on the three Yarrow poems with a view to bringing out the progressive change in Wordsworth's poetic temper and outlook as revealed in them.
- Can you account for the speedy drying up of the poetic fountains in Coleridge? Mention and discuss the poems which may be regarded as foreshadowing this decline.
 - Write a critical note on one of the following topics:-
 - (a) The problem of evil in Shelley's poetry.(b) Kest's use of epithets.

.c) Psychological subtiety in Coleridge's treatment of the supernatural.

SECOND HALF

Examiner—Dr. Srikumar Banerjee, M. A., Ph. D.

- 1. Attempt a comparative study of Wordsworth, Byron, and Shelley as poets of mountain scenery.
- 2. Byron, Shelley, and Kents were all the victims of premature death. Why is it that the tragedy is most poignantly felt in the case of Keats and why is he looked upon as specially an 'inheritor of unfulfilled renown?'
- 3. Indicate the different nepects of Byron's genius reflected in 'Vision of Judgment' and 'Childe Harold.' What are the elements of Byron's genius that are most noticeably absent in the latter poem?
- Scott marks the line of transition through which mediaval romances were transformed into the stuff of nineteenth century Romanticism. Discuss the above remark in the light of a comparison between the verse-romances of Scott on the one hand and Keats's 'Lamia' and 'the Eve of St. Agnes' on the other.
- 5. Show how the romantic effect is achieved in any three of the following works :-

Yew Trees (Wordsworth), Kubla Khan (Coleridge), Rosabelle (Scott), Stepping Westward (Wordsworth), Ode to Psyche (Keats), and The Skylark (Shelley).

(GROUP A)

SEVENTH PAPER

The questions are of equal value.

FIRST HALE

Examiner—Prof. Jaygopal Banerjee, M.A.

Only THREE questions are to be attempted.

1. Discuss with illustrative references the theories of (1) Art as Imitation, (2) Art as Communication, and (3) Art as Expression.

2. Compare the views of Wordsworth and Coleridge on the function and

efficacy of metre in poetry.

8. Examine the definitions of poetry given by Wordsworth, Coloridge, and

Shelley.
4. 'To say that poetry, as poetry, is moral or immoral is as meaningless as to say that an equilateral triangle is moral and an isosceles triangle immoral." Do you accept this view?

5. 'Besides its debt to Sidney's Apology. Shelley's Defence of Poetry owes

much to Plato. Discuss.

SECOND HALF

Examiner-Mr. Priyaranjan Sen. M.A.

Answer ANY THREE questions.

- 1. 'In depicting eccentrics or persons with striking idiosyncracies, or those in the lower ranks of life, Scott displays at once an amazing fecundity and a well-nigh matchless efficacy.' Comment on this view, with special reference to Michael Lambourne and Poundtext. Show how this trait of the novelist is related to romanticism.
- 2. What part does the Netherfield ball play in the weaving of the story of Pride and Prejudice? Do you regard the denouement of the story as perfectly satisfactory?

3. Discuss De Quincey's relation to the English Comantic Movement, with

special reference to his Confessions.

4. How far is Lamb, in his Essays of Elia, influenced by the spirit of the

age?

'In dealing with womanhood Landor can surpass all except the very greatest writers by the depth of his intuition, by the exquisite delicacy of his approach.' Examine this statement with reference to The Imaginary Conversations.

(Group B)

FIRTH PAPER

FIRST HALF

Examiner.—Mr. N. K. SIDDHANTA, M.A.

The figures in the margin indicate full marks.

1. Write a short essay on the composition of the Anglo-Saxon 10 Chronicle, and indicate its literary and historical value.

Or.

Discuss how far The Wanderer and The Seafarer can be described as lyrical poetry. With what modern poems can you best compare them?

Or,

Compare or contrast the prose-style of Wulfstan with that of Ælfric.

2. Any two of the following :-

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(a) Siddan ic hie dā geliornod hæsde, swæ swæ ic hie forstūd, ond swæ ic hie and; itsullicost āreccean meahte, ic hie on Er glisc āwende; ond tō ælcum biscepstōle on minum rice wille āne onsendan; ond on ælcre bid an æstel, sō bid on sistegum mancesea. Ond ic bebiode on Godes naman daet nin monn done æstel from dære bēc ne do, ne dā boc from dæm mynstre; uncūd hū longe dær swæ gelærede biscepas sien, swæ swæ nū, Gode donc, wel hwær siendon

Translate the above passage; and write a short note on the work

from which this passage is taken.

(b) Ond pā salde se here him foregīslas ond micle ā pas paet hie of his rīce uuolden; ond him ēac gehēton pæt hiera kyning fulwihte onfon wolde: ond hīe pæt geiæston swā. Ond pæs ymb iii wiecan com se cyning to him Godrum, prītiga sum pāra monus pe in pām here weorpuste wæron æt Alre, ond paet is wip Æ pelingga-eige, on his se cyning pær onfeng æt fulwihte, ond his crismīssing was æt Wepmor.

Translate into Modern English; and write notes on the italicised

words.

(c) Lēofau menn, gecna wad þaet söd is; dēos woruld is on ofste, and hit nēalæcd þam ende; and dỹ hit is on worulde ā swā leng swā wyrse, and swā hit sceal nyde for felles synnan fram dæge tu dæge ær Antecrīstes tēcyme yfelian swyde; and hūru hit wyrd þænne egeslic grimlic wīde on worulde. Understaudad ēac georne þæt deofol þās pēode nū fela gēara dwelode tē swyde, and þæt lytle getrywda wæron mid mannum, þēat hī wel spæcan.

Translate into Modern English; and parse and decline the stems of the italicised words.

3. Translate into Modern English :-

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Aefter pam pe Romeburh getimbred wæs viii hund wintra and ix, feng Nero to Romana anwealde, and hine hæfde xiii gear. And he hæfde gyt mā unpoawa ponne his eam hæfde ær. Gaius. Ta-eacon pam mænigfealdum bismirum pe he donde wæs, he het æt sumon eyrre onbærnan Romeburg. and bebead his agenum mannum pæt hi simble gegripon pæs licgendan feos, swa hi mæst mihtan, and to him brohton, ponue hit man ut opbrude. And gestod him sylf on pam hybstan torre, pe pær binnan wæs, and ougan wyrcean sceopleop be pam bryne, se wæs vi dagas byrnende and vii niht. Ac he wræc. his ungewealdes, ærest on pære byrig heora misdæda—and sippan on him sylfum, pa he hine ofstang—pæt hi Petrus aud Paulus gemartredan. He wæs manna ærest ehtend Cristenra manna.

SECOND HALF

Examiner-Mr. Panchanan Ganguli, M.A.

The figures in the margin indicate full marks,

Answer Question 1 and ANY TWO of the other questions.

1. Translate into Modern English prose :-

pā cūm of more under misthleo pum Grendel gongan, Godes yrre bær; mynte se mānscaoa manna oynnes

sumne besyrwan in sele pæm hean.
Wöd under wolcnum tö pas þe hö winreced,
goldsele gumena gearwost wisse
fættum fshne Ne wæs þæt forma sið
pæt hë Hröpgåres ham gesöhte;
næfre hö on aldordagum ær ne siþþan
heardran hæle, healþegnas fand!

2. Translate into Modern English prose:-

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Hī vo somed ealle ongunnon cohhetan, cirman hlūde, and gristbitian Gode orfeorme, mid to on torn poligende; pā wæs hyra tīres æt ende, eades and enelidæda. pā eorlas hogedon āweccan hira winedryhten; him wiht ne spēow. pā wearo and sīv and late sum to oam ārod pāra beadorinca, paet hē in paet būrgeteld nīvheard nēvde, swā bive nyd fordrāf.

Discuss the author-hip and date of composition of the poem from which the above extract is taken.

3. Translate into Modern English prose :-

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By thwold ma pelode bord hasenode sewaes eald geneat, aesc acwehte, he ful baldlice bornas lærde:

'Hige sceal pe heardra. horte pe cenre, mod sceal pe mare. Pe uie mægen lytla o. her lio ure ealdor eall for! eawen, god on grente; a mæg gnornian se oe nu fram pis wipplegan wendan pence o. Ic em frod feores: fram ic ne wille, ac ic me be healfe minum histordo be swa leofan menn licgan pence.

Write a note on "the heroic ideal" expressed in the above extract. In what way does the epic style of The Battle of Maldon differ from that of $B\bar{e}owulfs$?

4. Translate into Modern English prose :-

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ponne onwæcneð eft winelēas guma gesihő him biforan fen!we wegas, baþian brimfuglas brædan fetbra, hrēcsan hrim and snāw hægle gemenged. Ponne bēoð þý hefigran heortan benne, sāre æfter swæsne, sorg bið geniwad, ponne mäga gemynd möd geondhæeawað, greteð gliwstafum georne geondsceawað. Secga geseldan swimmað eft on weg, fleotendra ferð nö þær fela bringeð suþra ewidegieda: cearo bið genïwad pām þe sendan sceal swiþe geneahbe ofer waþema gebind wērigne sefan.

Write phonological or etymological notes on the words in italics. Comment on "the typical elegiac motif" as expressed in the above extract.

(GROUP B)

SIXTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner.—MR. P. E. DASTOOR, M.A.

- 1. Render into modern English any four of the following passages, 20 adding grammatical and etymological notes where necessary:
 - (a) Serewe if pu havest.

 and pe erewe hit wot:
 by-fore he pe menep:
 by-hynde he pe telep.
 pv hit myht segge swyhc mon.
 pat pe ful wel on.
 wyp-vte echere ore.
 he on pe Muchele more.
 - (b) Hwan Grim him hauede faste bounden,
 And sithen in an eld cloth wounden,
 A keuel of clutes ful unwraste,
 That he ne moutte spike ne fnaste,
 Hwere he wolde him bere or lede;
 Hwan he hauede don that dede,
 Than the swike him gan bede.
 That he shulde him forth lede,
 And him drinchen in the se,
 That forwarde makeden he.
- (c) Of pis mestere served peo uniselie ontfule ide deoffes kurt, to bringen o leihtre hore entfule louerd. Uor dif ei seid wel oder ded wel, nonesweis ne muwen heo leken piderward mid ribt eie of gode heorte, auh wincked odere half, & biholded o lust & asquint: & dif per is out to eadwiten, oder loken ledlich, piderward heo schuled mid elder eien; & hwon heo ihered pet god heo sleated adun boa two hore earen: auh pet lust adean pet vuel is euer wid open.
 - (d) Thei changit contenanes and late,
 And held nocht in the first stat;
 For thei var fayis to the kyng,
 And thou ht to cum in-to scowkyng,
 And duell with hym quhll that thei saw
 Ther tym, and bryng hym than of daw.
 Thei grantit till his spek for-thi;
 Bot the kyng, that wes vitty.
 Persauit weill be their hawyng
 That thei lufit hym in na thing.
 - (e) He 'sr s bordun I-bounde 'wib a brod lyste, In A we'pe-bondes wyse 'I-wripen aboute. A Bagge and a Bolle 'he bar bi his syde; An hundred of ampolles 'on his hat seeten.

Signes of Synsy and Schelles of Galys;
Moui Cros on his cloke and keides of Rome,
And be vernicle bi-fore for men schulde him knowe.
And see be his signes whom he souht hedde.

- (f) pu gest al to mid swikelede;
 Alle pine wordes pu bi-leist,
 pat hit pinc psop al pat pu seist;
 Alle pine wordes beop i-sliked,
 And so bi-semed and bi-liked,
 pat alle peo pat hi avop,
 Hi wene pat pu segge soth.
 Abid! Abid! me schel pe 3ene,
 Wu hit shal wurpe wel i-sene.
 pat pu havest muchel i-lo3e
 Woue pi lesing bop unwro3e.
- (g) Ho wex to a werwolf 'wi3tly per-after, al pe making of man 'so mysse hadde 3he schaped, ac his wit welt he after 'as wel as to-fore, but lelly oper likeness 'pat longep to man-kynne, but a wilde werwolf 'ne walt he neuer after. & whanne pis witty werwolf 'wiste him so schaped. he knew it was hi pe craft 'of his kursed step-moder. & pou3t or he went a-way 'he wold, 3if he mit, wayte hire sum wicked tern 'what hi-tidde after.

Either,

2.

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Consider the statement that The Owl and the Nightingale is, from many points of view, the test original long poem of a wholly imaginative character written in English before the time of Chaucer.

Or.

Write brief notes on the () aracteristics and literary worth of any two of the following works: (a) Harelock the Dane; (b) Mandeville's Travels; (c) Barbour's Bruce; (d) Confessio Amantis.

Οτ.

- *Piers Plowman is, after the Canterbury Tales, the greatest piece of Middle English literature.' Discuss.
- 3. Render into Modern English one of the following passages Determine the dialect of the passage you select :—
 - (a) Ut of latin tis song is dragen on engle is speche, on so to sagen; Cristene men ogen ben so fagen so fueles arn quan he it sen dagen, til son man hem telled soce tale wit londes speche and wordes smale. Of blisses dune, of sorwes dale:

 Quhu lucifer, tat deuel dwale.

 Brogt mankinde in sinne and bale, And held hem sperd in helles male, til god srid him in manliched. dede mankinde bote and red,

 And unspered al te fendes sped,

 And half tor he sag mikel ned.

(b) De narrwe way is godes heste 'pat for p fare p wel fawe.

pat beof peo. pe heom sche [1] dep wel. wip vych vn pewe.

peos gop vnnepe ayeyn pe cleo. ayeyn pe heye hulle.

peos letep awei al heore wil. for godes hestes to fulle.

Go we alle pene wei. for he vs wile brynge.

Mid pe fewe feyre men. by-uoren heouene kinge.

per is alre murch pe mest. myd englene songe.

Wel edy wurp pilke mon. pat per byp vnderuonge.

pe lest haue p murch pe. he haue p so muche. ne bit he namore.

Hwoso peo blisse for pisse foryet . hit may him rewe sore.

SECOND HALF

Examiner-Mr. Suhaschandra Ray, M.A.

Either.

1.

2.

15

(a) And in his gere, for all the world he ferde
Nat couly lyk the loveres maladye
Of Hereos, but rather lyk manye
Engendred of humour malencolyk,
Biforen. in his celle fantastyk.
And shortly, turned was al up-so-down
Bothe habit and eek disposicioun
Of him, this woful lovere daun Arcite.

Explain the above fully. Show how far the ideals of mediæval chivalry are illustraated through the character of Arcite.

Or.

(b) Ne jompre eek no discordaunt thing y-fere, As thus, to usen termes of phisyk; In loves termes, hold of thy matere The forme alwey and do that it be lyk; For if a peyntour wolde peynte a pyk With asses feet, and hede it as an ape It cordeth nought; so nere it but a jape.

Translate the above into Modern English and scan the first four lines. Write a short note on the wisdom of Pandarus and show how far he is an original creation of Chaucer.

Either,

15

(a) He knew the tavernes wel in every toun,
And everich hostiler and tappestere
Bet than a lazar or a beggestere;
For unto swich a worthy man as he
Acorded nat, as by his facultee,
To have with seke lazars aqueyntaunce.
It is nat housest, it may nat avaunce
For to delen with no swich poraille,
But al with riche and sellers of vitaille.

Translate the above into Modern English, adding etymological notes on the words italicised. Bring out the irony in the above description

and contrast Chaucer's attitude to the abuses of the church with that of Langland.

Or.

(b) Let not Sir Surfet sitted al pi Bord; Loue him not, for he is a lechour & likerous of Tonge.

And aftur mony Metes his Mawe is a-longet.

And 3if pou di3ete pe pus I dar legge bope myn Eres.

Pat Fisyk schal his Forred hod for his foode sulle,

And eke his cloke of Calabre with knappes of Gold,

And beo Fayn, be my Feith his Fisyk to lete,

And leorn to labre wip logd leste lyflode Faile.

Translate the above into Modern English.

'Langland represents an honest Plowman as the one best fitted to lead his contemporaries to the shrine of Truth. Chaucer, in his picture of the same English world, places first and foremost a noble knight.' What does the above statement suggest about the difference in temper and ideals between Chaucer and Langland?

- 3. Translate into Molern English any two of the following passages, adding grammatical notes on the words italicised:—
 - (a) Go, litel book, go litel myn tragedie
 Ther god thy maker yet, er that he dye,
 So sende might to make in som comedie!
 But litel book, no making thou n'envye,
 But subgit be to alle poesye;
 And kis the steppes, whereas thou seest pace
 Virgile, Ovide, Omer, Lucan and Stace.
 - (b) O hateful harm! condicion of poverte!
 With thurst, with cold, with hunger so confounded!
 To asken help thee shameth in thyn herte;
 If thou noon aske, with neds artow so wounded,
 That verray nede unwrappeth all thy wounde hid!
 Maugre thyn heed, thou most for indigence
 Or stele, or begge, or borwe thy despence!
 - (c) For O thing, sires, saufly dar I seye,
 That frender everisch other moot obeye,
 If they wol longe holden companye.
 Love wol nat ben constreyned by maistrye;
 Whan maistrye comth, the god of love anon
 Beteth hise winges, and farewel! be is gon!
 Love is a thing as any spirit free;
 Wommen of kinde desiren liberter,
 And nat to ben constreyned as a thral;
 And so don men, if I soth seyen shal.

(GROUP B)

SEVENTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-MR. MAHMOOD HASSAN, M.A. (OXON.)

Answer ANY THREE questions.

1. Explain and illustrate either the Breaking of Vowels in Old English, or, Vowel Contraction and the Lengthening of Short Vowels in O. E.

2. Write a note on Ablaut in Old English and illustrate your answer with examples.

3. Give the chief Old English Prefixes and Suffixes by means of which

Compound verbs are formed from simple verbs, nouns, and adjectives.

4. How are Weak verbs classified in Old English? Give the full conjuga-

tions of nerian and fremman.

5. Classify Old English Adjectives according to declension, gender, and case, and decline any O. E. monosyllabic adjective with a long stem (as blac, deop, god, etc.).

SECOND HALF

Examiner-Mr. Nalinimohan Chatterjee, M.A.

Attempt THREE questions only.

1. What do you understand by literary mannerisms? Write a short essay on standard literary dialect.

2. Write notes on the following words, referring to tendencies of speech which they illustrate:—

School, home, world, citizen, olive, condition, place, fond, play, standard.

3. Discuss the principle of accentuation in English.

. 4. Give a short history of the Personal Pronoun in English. Write notes on: some, that, more, better, both, them.

5. The practical study of language differs very considerably from the historical study, in point of view and in method. Explain the statement.

EIGHTH PAPER

Examiners— Mr. K. C. Mukherjee, M.A. D.Lit.

The figures in the margin indicate full marks.

Write an essay on one of the following subjects:-

100

- (1) Mysticism in English Poetry.
- (2) The moderntendendy towards specialisation: its effect on character and culture.
 - (3) Poetry divorced from Morality is Poetry divorced from Life.

(4) Epic and Romance.

(5) The civilisation of a people as reflected in the history of its

(6) 'As long as our civilisation is essentially one of property, of fences, of exclusiveness, it will be mocked by delusions. Only that good profits which we can taste with all doors open, and which serves all men.'

SANSKRIT

FIRST PAPER

The figures in the margin indicate full marks.

FIRST HALF

Full marks-50

Examiner—M.M. PANDIT SITARAM SASTRI
प्रथमं अत्र समुद्रीकांविष्टानां सन्ते विसपि वितयं व्याद्यावताम्।

1 छूद' हि राजा वर्षणयसार

13

स्याय पत्यामन्वेत्वा छ॥

<u>भुपदे पादा प्रतिभातने कर्</u>

। तापवृक्ता इद्याविधवित्॥१॥

विश्वित्रो भ्या भवतं न वेदसा

विभुवां याम <u>छत रातिरत्</u>यिना ॥

युवोर्ड यक डिम्येव वाससी-

। ऽभ्या<u>यं</u>सेन्या भवतं म<u>न</u>ीषिभि: ॥२॥

विजनांच्छ्यावाः शितिपादी चख्य-

ना<u>यं</u> हिरस्माप्र<u>श</u> वहना:॥

अविषय: स्वितुर्देश्यक्षीपस्थे

। विद्या भुवनानि तस्युः ॥२॥

ब्ब्रह्मा ब्ब्रह्मी <u>चेल्याना</u>-

दारे गुकुषा सदनावसाः॥

समानवस् प्रवर्ते पर्वी

यावा वर्ष घरत चानिनानि ॥॥॥

दुरीवामीचि: ब्रातुन निस्यो

जायेव योगाव विश्ववी ॥

। चित्रो यदभार्श्वेती न विश्व

रखी न कुक्ती लेवः चनत्त् ॥॥॥

भयोदेव दुर्मेंद्र चाहिलु ही

। महावीरं तु विवाधवजीषम्॥

नातारीदस समति वधानी

संद्रजानाः पिपिष रन्युयतः ॥६॥

स्विक्तन्दी दैवतनिर्देशपूर्वकं यथाभाषं किमपि स्वक्षतुष्यं व्याख्यायतान्। इन्द्रशतुश्रन्दे च खरमेदेन सभाव्यवेविमेद एक्तिस्थातान्।

2. जुजुरवी नाबस्योत वृति प्रा-

11

श्चत द्वापिनिय चत्रामात्॥

प्रातिरतं चि<u>ष</u> तखायुग्सा-

दित्यतिमक्क इतं कनीनाम् ॥१॥

चिप्रेयांसि वपते मृत्रिवा-

पोर्कृते क्ष चुक्के व क्षंडम् ॥

न्योजितिका सुवनाव सुखती

गावी व मुक्तं व्यक्ता चावतंत्रः ॥२॥

दे विदये चरतः सर्वे जुलाना

ब्कास्पंचापविते ॥

इरिपुनको भवति खुषा बाँछ जी

पमका दहने सुनर्थाः ॥२॥

यवाभाषं किमिप स्वग्दयं व्याख्येयम्। चादो मक्ते भाषोत्तेतिहासिविखेखं उ कार्यम्। दितीये न-शब्दस्य सप्रमाचमधे विविद्धः ''स्वृश्वा'' इत्यव खरसिनः सप्रमाणं प्रदर्शः। दृतीये "उपभापयेते" इत्यवात्मनेपदार्थः विविद्धः तदुपपत्तिभाषोत्ताः विविद्धातामः।

B. <u>इदं विश्वविंचक्रमे वेधा निदंधे पृदम्</u>।

11

समृद्ध इमस्य पांसुरे ॥१॥

चन विचोक्तिविक्रमविषये यास्त्रीयो विशेषो भाष्योत्तः समतविभेदः प्रदर्धताम् । कानि चान पदानि संमतानि विचय कोऽनाभिप्रेतः कुतर्थित विलिख्यताम् ।

4. गबासयने चारभाषीये चतुर्विशेऽहान प्रात:सवने सैवावरणस्य स्रोतियः॥ 11 सैक्षिको विनियोगः॥

सविशेषं भाष्यीयं पङ्क्तिदय व्याख्येयम्।

- 5. प्रयोभि:। प्र'सन्। कारोत्तरात्। धनम्। विवन्। यैवन्। एषां 11 सन्दानामधीन्विक्तिः इते, चनस्यतम्, उद्यन्तिः, वनतम्, वाजिनीवस्, साधन्ता, इताचीम्, प्रपस्न, वाद्यतः। इते शब्दाः संसाध्यन्तामधीयेषां विक्तिस्थनाम्।
- 6. बुक्क त्रवस्य यक्किर्: पर्वतेष्वपत्रितम्। तिहरक्कर्येषार्वति। भव ग्रयेषा- 11 वत्यदाये: कः ? मन्त्रसास्य देवतामर्थस्य विश्विस्य भवत्यः कथाभागो भाष्यकदुपदर्शितो विश्विस्थताम्। तेन वैदिके देवतातस्वे कौष्टशमानुगुन्धं संपदाते तत्प्रदर्श्वताम्।

SECOND HALF

Full marks-50

Examiner-M.M. PANDIT SITARAM SASTRI

प्रथम-प्रश्नमुत्तीय्य अविष्टानां विमपि दयसुत्तरचीयम्।

- 1. चर्यवादमधिकात्य संस्कृतभाषामयः प्रवस्य एकी विरच्यताम् । 20
- 2. बाति तावद वेदाः ? का च तेषामानुपूर्वी ? चायवैषस्य वेदेनु परिगणनं 15 समीचीनं वा न वा ? सर्वृक्षिकसूत्तरं सिखनीयम्।
 - 8. शिचान्याकरचनिक्तानां विषयविभागः कौड्यः ?
- 4. सविवारं प्रसङ्गसङ्गतिप्रदर्शनपुर:सरं स्थाख्यायतां (क -(ख)यीरन्यतरो 15 साव:---
 - (क्) पाखायस्य क्रियार्थेलादानयंकामतदर्यानां तकादिनत्वसुचाते।
 - (ख) सञ्ज्ञत् करवपरियाम:।

SECOND PAPER

The figures in the morgin indicate full marks.

FIRST HALF

Examiner-Dr. Prabhatchandra Chakrabarti, M.A., Ph.D.

Answer the FIRST question and ANY TWO of the rest.

- 1. (a) How do you account for Pāṇini's remarkable innovation in the 20 arrangement of letters (वर्णसमाद्याय:) ? Why the letter प occurs twice in the Siva-sūtras? Explain the utility of these sūtras from the grammatical point of view.
- (b) Explain the rule 'स्वानिवदादेशोऽनिल्क्षी' commenting on the special significance of खानी and पादेश:. Name the different forms into which the compound ' मल्दिश:' may be broken up. Which one is preferable to you? Give reasons for your answer.
 - 2. (a) Explain any two of the following with reference to the rules :-

चनादिभि: स्तीतस्य विशेषणानेहः। पदानी। चट्टवं स्तिमत खाक्ष' प्राणिख्यमविकार अस्। चपयोगे किम १-नटस्य गार्था प्रचोति। भत्रव ज्ञापकाद्मधिकर्णपदी बहुती है: ।

(b) Elucidate the following:-

वैकास्थिक: समाचारहन्द्र: 'चार्च' इन्दः' इति सुवेच प्राप्तः स विरुद्धार्थना यदि भवति, तर्षः चद्रव्यवाचिनाभवेति नियमार्थमिदम्। तेन द्रव्यवाचिनामितरेतरयोग एव।

- 3. (a) The same idea of separation (प्रकृत्वम्) is involved in both ' तथां श्रेष्ठी ब्राह्मणः' and ' साध्याः पाठलीपुचकेश्य पाळातयाः है, though we have वहीं in one case and पश्चमी in the other. What, then, makes the difference between the two rules ' यत्य निर्वार्यम ' and ' पश्चमी विभक्ते ?
 - (b) Explain the paribhāṣā- ' यशोत्तरं सनीनां शासाकान'।
 - 4. Comment on the following :--

(a) विद्याचामपि समानार्थानाम

- (b) संज्ञापूर्व्यको विधिर्गित्य:।
- (c) कार्निनामपि सम्बन्धनावविवचायां पष्टे व ।
- 5. (a) Give the meaning as well as praktti and pratyaya of any five of 15 the following :-

क्रमायीया (बुद्धि:)। विद्यत्करुप:। तार्यकतम् (नभ:)। एतावान्। प्राविष्याः। जनता। ऐन्द्रम् (इवि:)। वैनर्तयः।

(b) Explain any two of the following sutras-न जुनताङ्गस्य। वा नपुंधकस्य। अनिकर्तुः प्रकृतिः। इति चा 15

15

SECOND HALF

Examiner-P	ANDIT	SAKALNARAYAN	SARMA.
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Examinet—FANDIT DAKALNARAYAN DARMA.	
 एकाच उपदेश्वेऽनुदात्तात्। इभाल्थी इधि:। इद दरिद्रख। परिचर्नेथः क्रिसः। कर्मनत् कर्मचा तुक्यक्रियः। ऋती भारदाजस्य। 	10
चन कैवाचिचतुर्वां स्वायां सीटाइरया घर्या तिय्या:।	
2. परकीपदिवधायकानि कानिचित्रलारि त्याचि सोदाइरचानि प्रकटी-	10
करचौद्यानि ।	
 संज्ञाया: कार्यकाललादक्क' यव दिक्चते । 	10
तसैव दोर्घ: सम्बद्ध नानेकाच्चिति नाधव:। व्याख्यायतानियं कारिका।	
4. चचीकासतः। जिहा एधिः। दीव्यतिः। चिकीर्षैतिः। भूयते। ब्रेपेः। चदात्। चत्र विचलं तथायां प्रयोगायां साधलं विधेयस्।	10
5. (a) सार्वधातुकी किं चिकीर्थात्।	10
(b) किस्तीक्ती क्रांयते क्रांचदनुवन्धकार प्रमण्यविधावितिप्रतिवेष: ।	
चत काचिरिका पश्चिमा म्याव्येया।	
Continuity	
THIRD PAPER	
The figures in the margin indicate full marks.	
FIRST HALF	
Examiner-Dr. I. J. S. TARAPOREWALLA, B.A., Ph.D.	
[Full marks—66]	
Answer the first question and ANY THREE of the remainder.	
1. Discuss the relations of Sanskrit with the Modern Aryan Vernaculars of India.	21
2. What do you know of the following?	15
The Prātisākhyas, Bopadeva, Siddhantakaumudi. 3. Write a note on the accent system in Sanakrit and point out the importance of the accent in the development of nominal and verbal forms in Sanakrit.	15
4. Write a note on the use of the locative case in Sanskrit.	15
5. Discuss any three of the following:—	15
एकबिषः इदि, चेट्, चार्चे कित, प्रयञ्च ।	
6. Discuss any peculiarities in the following:	15

(a) क्वीतिवां मध्यकारी विवृर्षि राष्ट्रका यस्ति।

(b) सीम्बंगा का नम: पार्व।

- (c) तं पातयां प्रथममास प्रपात प्रशात ।
- (d) अधमेकपदे तथा विश्वोग छपनतः।
- (७) मा जीवन् यः परावज्ञादःखदग्धोऽपि जीवति ।

SECOND HALF

Examiner—M. M. Gurucharan Tarka-darsana-tirtha.

[Full marks-34.]

विष दयोक्तरं कार्थंम।

- 1. कः मध्दबोधः? तव कामि साचात कारवानि? तस प्रत्यचविधया प्राम। ख्यं येषां सम्रातं तन्त्रतखन्छने जगदौन्नसम्बता का युक्ति: १
- 2. जगदोशीतां समासलच्यां कीष्ट्रयम् ? तत लादौत्यचादिपदेन वितं यद्दचीयम् ? 17 नित्यानित्यसमासयी: की विशेष: १
- 3. पाल्यातस्य संस्थानाचनत्वे ना यति:? व्यानरचस्य यतियाद्यस्य नीट्य- 17 सदाइरचम ?

FOURTH PAPER

The figures in the margin indicate full marks.

FIRST HALE

Examiner-M. M. Dr. Bhagabatkumar Sastri, M.A., Ph.D.

[Full marks-50.]

Write an essay on any one of the following subjects:-

50

(1) Germs of philosophical thought in the Vedas, or, Higher speculations in the Upanishads.

(2) Poetry of the Rigweda.
(3) The Mahābhārata and its place in the development of Indian thought.

(4) The Ramayana as an Epic.

(5) The religious philosophy of the Puranas.

(6) Materials for the history of Sanskrit literature.

(7) Sanskrit and ancient Indian culture.

- (8) Fruits of Western scholarship in the field of Sanskrit learning.
 (9) Indian methods and Western methods of interpretation of
- ancient Sanskrit texts.
 - (10) Modern cultural value of Sanskrit language and literature.

SECOND HALF

Examiner-Dr. Surendranath Dasgupta, M.A., Ph.D.

[Full marks-50]

Write an essay on any one of the following subjects :-

50

(a) Growth and development of Sanskrit poetics.

Or.

Examine intelligently and critically the place that Sanskrit poetry can rightly claim in the poetry of the world or even of Bengal, showing its defects as well as strong points and illustrating your answer with apt quotations.

(b) Social and economic life of India in Vedic times.

Or.

Growth and development of the Dharmasastras.

(c) Religion in the Vedas and Upanisads.

Οτ.

The Mimamsa theories of knowledge of Kumarila and Prabhakara.

(d) Vedantic Idealism and Realism.

Or.

Vedantic and Buddhistic Idealism.

(e) Patanjali—his identity, probable date, and his philosophy..

Or.

Examine critically the extent to which the Samkhya philosophy may be called idealistic or realistic.

(f) Nyaya theory of knowledge.

Or.

The origin, growth, and development of the Nyaya philosophy.

(g) Compare the Nyāya and the Mīmāmsā theories of knowledge.

Or,

Examine the extent to which Sankara's criticisms against the Samkhya and Buddhism are valid.

(h) Explain clearly the special features of Prakrit poetry.

Or.

Trace the growth and development of the Prakrit literature.

(i) Examine carefully the significance of the discoveries and finds at Harappa and Mahenjodaro.

Or.

Discuss the linguistic characteristics and changes of literary style in the various Prakritic and Sanskritic epigraphical documents through the ages.

(GROUP A)

FIFTH PAPER

FIRST HALF

Examiner-Dr. AMARESWAR THAKUR, M.A., Ph.D.

[Full marks-50.]

- 1. Explain fully in Sanskrit, quoting lexicons and important grammatical rules, where necessary:—
 - (a) संस्तीपकरणेन निर्मेलां कर्णुनिष्टिमभिवाञ्कता मया। लंसमीरण इव प्रतीचितः कर्षंकीण बलजान् पुपूषता॥
 - (b) वारिपूर्वैमखिलासु सत्क्रिया-लब्धग्रसिषु धनानि बीजवत्। भावि विश्वति फलं महहिज-चित्रभूमिषु नराधिपोऽवपत्॥
 - (c) प्रतिष: कुतोऽपि ससुपेख नरपतिगणं सभाग्रयत् । जासिष्डरणजनितानुज्ञयः ससुदाचचार निज एव विकाणः॥
 - (d) मधीतिबोधाचरखप्रचारखैदेशायतचः प्रवायतुपाधिभः ।
 चतुद्देशलं क्रतवान् कृतः खयं
 न विश्व विद्यास चतुद्दंशलयम ॥
 - (e) ससम्भूमीत्यातिपतत्कुलाकुलं सरः प्रपद्योत्कतयानुकन्प्रताम् । तमूर्त्भिकीतैः पतगयडान्नूपं स्वारयडारिकडेः करैरिव ॥
- 2. Write a clear note in Sanskrit on Magha's knowledge of Sankhya 8 and Mimamsa, illustrating it with apt quotations.

Or.

Discuss the general scholarship of Magha.

- 3. Write notes, grammatical or explanatory, on any four of the underlined expressions:—
 - (a) <u>क्रीयलर्थफलभीग</u>वित्र ते दुविश्वमसुमीयरं विदु: ॥
 - (b) शासकरमघटने नितरां शिरसीय

9

8

- (c) बाइ चलयति भुवं मन्ति चुभितस्य
- (d) तब धर्मेराज इति नाम कचमिदमपष्टु पन्धति।
- (६) चचतानि निरवर्त्तयत्तदा दानहोमयजनानि भूपति:॥
- (f) अभितर्जेय्ज्ञिव समसत्यपगणमस्।वकन्ययत्।
- 4. Discuss the alamkara in any three of the following verses:

(a) निवारितासेन महीतखेऽखिले निरीतिमार्व मितेऽतिस्रष्टयः। न तत्यजननमन्यवित्रमाः

प्रतीपभुपालसगीह्यां हय:॥

(b) चयं दर्रहो भवितेति वैधर्सी विधि जलाटेऽर्थिजनस्य जायतीम ।

सवान चन्नेऽस्थितकस्पपाटपः

प्रणीय दारिद्युदरिद्रतां श्रप:॥

(c) विखोक्यनौभिरजसभावना
बखादमुं नेवनिमौखनेष्य'प।
स्विक्ष मर्स्याभिरमुख दर्शने
न विद्यक्षेत्रीऽपि निमेषनिर्मितः ॥

(d) चकारि नेन श्रवचातिथिगुंच:

चमासुत्रा भीमदपात्मत्राखयः ।

तदुवधैर्यव्ययसंहितेषुषा

खारेच च म्बाताज्ञरासनाग्रय: ॥

(e) रसालसाल: समहस्थतासुना कःरहिरेफारवरीवहरूति:।

समीरलोक्षेम कलैवि योगिन

जनाय दिखान्निव तच्च नाभियम् ॥

SECOND HALF

Examiner-M. M. Dr. Bhagabatkumar Sastri, M.A., Ph.D.

[Full marks-50]

Either.

1.

Explain fully any eight of the following:-

मीखन्, बाद्यक्रम्, सारम्, भसारम्, बिचितम्, चिवितम्, वृत्रीभूतम्, क्राह्यक्रम्, द्वाद्यक्रम्, स्वाह्यक्रम्, स्वाह्यक्रम्, क्राह्यक्रम्, क्राह्यक्रम्

07

Explain the six political principles and the proper occasions for their use according to Sukra.

R

2.

Either.

Clearly explain the विजिगीयुमका according to Kāmandaka.

Oτ.

Explain and illustrate any four of the following :-

बिग्टख्यानम्, सन्वाययानम्, सभूययानम्, प्रसङ्गयानम् and चपेचायानम् ।

8. Answer any three of the following :-

8 x 8 = 9

- (a) "बड़ेतान पुरुषो जल्लाद शिक्षां नाविमवार्थवे"-what six ?
- (b) ''नित्योदयुक्तेन वै राजा भवितव्यं युधिष्ठिर । भगवानुग्रना चाड स्रोक्तमत विगापते''—what śloka ?
- (c) नियतस्व नरव्यात्र प्रस्तु सर्व्यनश्चितः। यथा राज्यं समुत्यन्नमादौ ज्ञतयुगिऽभवत् ॥—how ?
- (d) Whose was the original work on হভানীৰ and how was it successively abridged?
 - (e) What are the guiding principles of राष्ट्रगुप्त and राष्ट्रसंग्रह ?
 - (f) एवं विचित्रयाद्राजा परचारं विचचच:—bow?
 - (g) 'राजा काखस कारचम्''—in what sense?
 - (h) ''निष्ट जालवमनाव्यो मनुष्य द्वति भूमिप:''—why not ?
 - 4. Translate into Sanskrit :-

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18

The king of the gods himself, in the guise of a jackal, approached the Brahmin and addressed him thus:—

Every other being covets human birth; men again covet the Brahminical birth; you are a man, a Brahmin, and a learned one too; you have therefore attained to a rare destiny; why then should you wish to die? It is really a piece of good luck that you have not been born as a jackal, or a worm, or a rat, or a snake, or a frog. or some such creature in the lowest scale of creation. Brahmin, you ought to be quite content with this much that you now occupy the highest rank in the order of beings. Look here, these worms are biting me, but I have no arms with which to get rid of these. Such a life is certainly miserable. Should I therefore die? No, no. Who knows that if I die I shall not come back in a worse form of life?

(Group A)

SIXTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Mr. Dhires Chandra Acharyya, M.A.

1. Briefly discuss the excellence of emy three of the following dramas (with appropriate quotations, if possible) and arrange them in order of merit:—

Vikramorvasi, Mrechakatika, Vanisamhära, and Mahäviracarita.

2. Write all you know about the commentators of the dramas mentioned 12 above.

Or.

Discuss the characteristic qualities of the Prakrit of the dramas mentioned above.

8. (i) Explain the following with full reference to the context:-

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- (a) मनुत्पन्नं ज्ञानं यदि यदि च सन्देइविधुरं विपयेसं वा न्यात् परिचर वसिष्ठस्य चरणी। भूवं ज्ञाने दोष: कथनपरथा द्व्यंबद्धति-विश्वसी चेत पापं चरसि न सङ्ग्ले नृपत्य:॥
- (b) जगत् सनातनगुरौ वसिष्ठेऽपि निरङ्गः। व्यालिप इत्राचासिकपक्षयेव ट्यासे॥
- (c) एककार्यनियोगेऽपि नानयोस्तुल्यशीलता। विवाहे च चितायाद्य यथा हुतभु नोहंयो:॥
- (d) चकलितमहिमानं चांत्रहैरात्तचापै: समरश्रिरसि युषाहाग्यदोवाहिपहाम्। परिवदति समचं मिचमङ्गाधिरानं मम खलु कचयास्मिन् को विशेषोऽर्नुने वा।
- (ii) Name and define the metres of stanzas marked (a) and (d) above.
 (iii) Show the syntactical connection of the following line and note its grammatical peculiarity:—

एक् मन्धे राजपुत्र जामदग्रं विजिष्यसे।

SECOND HALF

Examiner-Mr. Debendranath Ray, M.A.

[Marks-50.]

1. What literary and epigraphic evidence have you to prove the date of composition of the Karpūramanjarī?

Or,

What do you know of Rajasekhara as a man of letters?

2. (i) Render into and explain in Sanskrit one of the following stanzas:—

- (a) जे बङ्गागिरिमेडलाडिं खिलिदा संभोचिखचारई फारप्पुन्नफणावलीकवलचे पत्ता दरिइत्तवम्। ते एडिं मलचाविका विरिद्यौचीसाससंपित्वची जादा भत्ति सिस्तवी वि वहला तादखपुद्या विष्य ॥
- (b) गाभना गीवभवष्टपदपिक्षभासु
 दोखासु विव्धभवदीसु विस्ववदिही।
 जं जादि खिखदतुरक्षरको दिवसी
 ते बेळा कोना दिभक्ष भारदीक्रदीका॥
- (ii) Point out the figures of speech contained in the above stanzas.

(iii) Who is the speaker of the stanza (a)? What part does the person play in the drama?

3. Translate into Sanskrit :--

They used their strength to oppress and not to help other nations. Armies marched backwards and forwards amidst blood and corpses, striking terror into the hearts of the people divided into factions. But happily violence cannot last for ever. The tyrants soon came to be hated with a bitter hatred, and the people waited but for a word. And the word came when it was little looked for. Far away in the country there was a young peasant girl, pure and simple, and utterly without learning. As she heard the tales of wee and agony which reached her from every side, her soft woman's breast was melted in pity for the realm. Words of hope rose within her. She fancied that she heard angels' voices bidding her deliver her native land. The rude soldiers believed that she was indeed sent from heaven. They followed her where they would follow no one else, as she mounted her horse astride like a man, with a banner in her hand, burst through the foreign army, and entered the town in triumph.

(GROUP A)

SEVENTH PAPER

FIRST HALF

Examiner-Pandit Harihar Bannerjee, M.A.

[Full marks-50]

1. What are the different classes of Prose-writing in Sanskrit? To which class does Vāsavadatta belong? What are its characteristics? Illustrate the principal merits and demerits (if any) of the style of Subandhu.

Or.

सारसवत्ता विद्वता नवका विखसन्ति चरति नी कंक:। सरसीव कोत्तिश्रेषं गतवति सुवि विक्रमादित्ये॥

Discuss the historical reference in the above sloka, if there is any, and explain it mentioning the figures of speech used in it. Determine also the date of Subandhu.

2. Explain in Sanskrit either (a) or (b) :-

(a) यय च परिसरे सुरासुरमुक्रटकुसुमरजोराजिपरिमखवाहिनो पितामह-कमण्डलुचर्यद्रवधारा-धरातलगतसगरस्तयतस्तरगरसभारोहच-पुण्यर कुरैरावतकटकवच-कम्पित-तटहरिचन्द्रमञ्जल्मसुराभितसिलाला स्वीलसुरसुन्दरीनितन्विक्वाहितिरिलत-तरङ्गा सागावतोर्थसप्ति जटाटवीपरिमलपुण्यविचिरेणतिलकसुकुटजटाजूटविकटकुसुद-स्वातिज्ञानिसंक्वारतयेव कृटिलावर्गा धर्णीव सार्व्यभीमक्वरस्पर्योपभोगचमा भगवती भागीरची वहति।

(b) तत च कैचित् कलाजुरा इव विजितनगरमञ्जना, चपरे पाख्या इव दिश्चच्च:क्रचागुदपरिभितिता, चन्चे धरहिवसा इव सुतूरप्रवस्तुखावा, इतरे व्यावनायता इव स्वकाधिन:, कैचिद्याधा इव ब्रजुननावका:, कैचिदाखेटका इव

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15

15

क्यानुसारमञ्जाः, केचिन मिनिमतानुसारिय प्रव तकागतमत्यासिनः, केचित् खन्नाग प्रव सांवस्त्रप्रकदर्भिनः, केचित् समद्यपित्रपा प्रव कार्त्तस्त्रया, केचित् विकच- कुसुदाकरा प्रव भासाइर्थनिनमीखिताः, केचित् कीपत् कीरवसैनिका प्रव द्रोधामास्चकाः स्थिता राज्यस्याः।

- 3. Discuss the figures of speech in any three of the following:
 - (a) विव्यक्तपरग्यामां भवति

खनागामिव पतीय मिष्यमञ्जम् ।

चन्द्र राज्य विक्या मि

संख्यम् वां संखिनिमाध्यधिकः॥

- (b) चविद्वत्युचापि सल्तविभचिति:
 - वार्षेष वसति मध्यारास।

चनिवात-परिमलापि हि

हरति इग्रं मालतीमाला ॥

- (c) यत च राजनि राजनीतिचतुरे चतुक्दिधिमेखलाया भुवा नायकै शासित वसुमतौँ पिटकाय्ये व्योतकार्थः शशिकाः कन्यातुलारोष्ठणं योगे यूलव्याचातिचना दानक्छेदः किक्योलेक - -।
 - (d) करसस्यात्यधे वहति धतकोटिप्रणयिताम्। स सर्व्यसं दाता त्रणमिव सुरेशं विजयते॥
 - 4. Elucidate the allusion in any four of the following :-

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- (a) पुरुषा ब्राह्मणधनतः श्वा विननाम ।
- (b) नड्ड: परकाखनदोषात्।
- (c) यथातिविधितवास्त्रवीयाविवस्य: पपात ।
- (d) सदाव: स्त्रीमय इव ।
- (e) शृग: जनसासतामगमत्।
- (f) कार्श्ववैद्यार्जन: पञ्चलमयासीत ।

SECOND HALF

Examiner-MR. MURALIDHAR BANERJEE, M.A.

[Full marks-50]

- 1. Estimate the worth of the Harsacarita as a historical work and as a 10-prose romance. What autobiographical and historical material does the work supply? What are the merits and defects of Bāṇa's style as compared with that of Subandhu?
- 2. Turn into simple San krit any one of the following extracts, 10-avoiding the use of compounds as far as practicable:—
- (a) दोवायमानसवावकुवाचवचन्नवावा पत्या साधै गनुवानिव प्रधानसम्बद्धिती। धन्यतद्दिवान्तरे तिकान् करनः परन्यराकासनवःचावनीचयो विनुष्ठविदेश्येताः। भूधदसायमीतानां विववधिक्यक्षपनिकटकृष्टिवाः वैत्यपादाः प्रवोक्ये विवसुर्भूमवेतवः बाह्यसम्बर्धः भूमवेतुवारस्थितदिद्यः सं दिन्यमकारस्यावुच्यानकोननस्य भूवनिवानसम्बद्धनन्तः।

- (b) न स्रायमरातिरक्तचन्द्रनचर्चामिशिरोपचारमन्तरेष माम्यति परिभवानसपच-भानदेषस्य देवस्य दुःखदाष्ट्रन्यरः सुदावयः। निकारसन्तापमान्युपायपरिचये हि हिड्निचानुम्बनास्तादिर्तामन रिपुविधरास्त्रतममन्दरीपायमपायि पवनाताजेन जामदग्रीन च माम्यनासुमिशिस्तासंन्तरसुकायमानस्पर्भमौतसेषु चन्नियचतजङ्गदेषस्वायि।
- (८) स च प्रत्ययतष्ट्रद्वतष्टतन्। वष्टदहलक्षिररसमांस्क्वितपरपारावार-प्रयसि ममञ्ज मिश्रष्टारुणोऽरुणसार्थाः। सुकुनायमानकमिलनोकोषविकलं चकाण चचरीक क्लं कमलसरसि। स्विधविरङ्गाधिविधरवधूवाध्यमानं वबस्य बन्धाविव विवधवस्थकसासि सास्त्रति सास्त्रां दिशं चक्रवाकचक्रवालस्।
- 3. Give the substance of any one of the following extracts in your own Sanskrit:—
- (a) प्रविश्वत्रेव च विपणिवर्त्वान कुत्इलाकुलबङ्खबालकपरिवतम् ध्वैयष्टि-विष्क्रभवितते वामङ्खवर्त्तिन भीवणमः इवाधिक्टप्रेतप्रेतनायसगाये चित्रवति पटे परलाकयितकरिमतरकरकलितेन शरकाब्हेन कथ्यन्तं यसपद्दिकं दद्धै।
- (b) भकाछे खल्यं समुपिखतो महाप्रलयो व्यश्व इव वजपात: । सामान्योऽपि तावच्छोकः, सोच्छासं मरणम्, भनुपिद्षष्टीषधो महाव्याधः, भभद्यीकरचोऽप्रिप्रवेषः, भनुपरतस्यैव नरकवासः, निर्चोतिरङ्गारवर्षम्, भयकलीकरणं क्रकचदारणम् भवषो वजस्चीपातः ।
- (c) देवस्तु इषं: तं प्रत्यवादोत् करणीयमेवेदमभिष्ठितं माखेन । इतरद्या ष्ट्रिंगसृति भोगिनाधेऽपि दायाददृष्टिरौष्यांकोर्भु जस्य । उपरि गच्छति इच्छति निग्रहाय यहगणेऽपि भ्रूषता चिलतुम् । भनमत्म, शैलीष्यपि कच्यहमभिल्यति दातुं करः । तेजादृष्टिद्यभान् सर्वेकरान् भपि चामराणि गाइयितुमी इते हृदयम् ।
 - 4. Translate into English any two of the following :-
- (६) ततस्यस्य चास्य कदाचित्कुसुमसमययुगसुपसंदरम्भृष्यत योषाभिधानः संपुः अमित्रिकाधवलादृद्दासी महाकालः । प्रत्ययानिर्जितस्याससुपगतवती वसन्तरमानन्तस्य वालापत्येष्विव पयःपायिषु नवोद्यानेषु द्वित्वे हां सदुरभूत्। षभिनवोदितस्य सर्वस्यां पृथित्यां सकलकुसुमबन्धनमोचमकरोत्प्रतपमुष्यसमयः । स्वयस्तुराजस्याभिषेकाद्रीयामर-कलापा दवाग्यस्यन्त कामिनीनां चिकुरचयाः कुसुमायुष्टेन । इमदन्धसक्तकमिनिकोपिनेव इमालयाभिसुस्त्रीं यातामदादंग्रमाली ।
- (b) यय खलाटमपे तपित तपने लिखितललाटिकापुम्रकेरलक्षेरचौदर-मंत्रीतै: खेदीदिवन्दुमृक्ताचवलयशिक्तिदिंगकरागधनियमा दव ययद्वाम ललगा-ललाटिन्दुभि:। चन्दनधूसराभिरस्र्यम्ययाभिः कुसुदिनोभिरिव दिवसमसुखत सुन्दरीभि:। निद्रालसा रज्ञालोकमपि नासदम्न हयः, किसुत जरउमातपम्। यशिवरसमयेन चक्रवाकामयुनाभिनन्दिताः सरित दव तिनमानमानीयम् सोषुपाः वर्ग्यः। यभिनय-पटुपाटलामीदसुरभिपारमलं न केवलं जलम्, जनस्य पवनमपि पातुमभूदभिलाचो दिवद-करसनापात्।
- वत्र प्रेताप्रिभूमाञ्चपातअकचालिता दवाचीयमा कुढ्डस्य:। पच्चमानचयनैष्टका-इडनदम्धानीय नाह्यसमा दुरितानि । विश्वमानयूपदावपरग्र-पाटित १व व्यदीर्व्यताचर्य:। सञ्चाविक्यमञ्जलपरभाराचीत दव ननाम वर्षसंकर:। दीयमानानेकसीसच्चयम्बच्छाः

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मान द्वापकायत कि:। सुरालयशिकाषद्दनटङिन कर्गकारा द्व व्यदीर्थन विपदः।
मङ्गदानविधानककाकाभिदुता द्व प्राद्वसुपद्रशः। दोष्यमानस्वमहानस्य इच-सन्तापिता दव व्यतीयन्त व्याधयः। व्यविवाहप्रदृतपुष्याय्वरपटुरववासिता दव नीपा-सर्पद्मपक्षकः।

(GROUP A)

EIGHTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Mr. SATKARI MUKHERJEE, M.A.

Attempt ANY FOUR questions, of which the LAST is compulsory.

1. Is the gauni a separate vitti or included under laksanā? Fully 15 discuss the nature of the syntactical connexion and the resultant verbal knowledge (sabdabodha) of the sentence गौबोडीक; with special reference to the position adopted by Mammata. 10 2. (a) Discuss the theory of rasa as propounded by Bhattanāyaka and show its excellences and limitations. Was Bhattanayaka an opponent of the Dhvani theory? (b) उपादानं लच्चणचेत्यका ग्रह व सा दिथा। 5 Fully demonstrate the implication of the restrictive particle U4. 3. (a) What is the principle of distinction between Padadoşa and Vākyadoşa? What is the reason of the exclusion of some padadoşas from 10 the category of the vakyadosas? What is the ground of non-exclusion of avacaka from the latter category? (b) Discuss the dogas found in the following stanzs :-5 लग्नं रागावता ह्या सहदमिष्ठ यदैवासियष्ट्यारिकार्छे. मातङ्गानामपोद्योपरि पर्यक्षेर्या च हृष्टा पतन्ती। तत-सकोऽयं न किश्विद गणवात विदितं तेऽस्त तेनाश्चि दत्ता. भत्येभ्य: त्रौनियोगाइ गदितुमिव गतित्यव्यक्तिं यस्य कौर्तिः॥ 4. (a) Give a critical evaluation of the definition of the figure परिचास 5 as given by Vidyādhara and show how far it agrees with or differs from the definition of other writers on poetics.

(b) Is the tātparya as propounded by Vidyādhara in the Ekāvalī capable of being identified with the tātparya of the Abhihitānvayavāda as explained by Mammata? Give reasons for the position you take up.

(c) What is the ground of division of upamā into śrautī and ārthī? Is the line of argument of Vidyādhara the saue with that of Mammata?

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5. Define and illustrate any two of the following metres with scansion:

(a) Drutavilambita; (b) Puspitāgrā; (c) Praharsiņī; (d) Rathoddhatā; (e) Sragdharā.

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SECOND HALF

Examiner-Mr. Sibaprasad Bhattacharyya, M.A.

- 1. Explain clearly any three of the following statements so as to bring 12 out their full import:—
 - (i) अलक्तमपि श्रव्यं न काव्यं गुणविक तम्।
 - (ii) ध्वनिसत्ता त गामीर्थम ।
 - (iii) चयुक्तं विद्भुक्तं रसानामखङ्कारतेति · · · · नायक्तम ।
 - (iv) प्रायेण सुरानुप्रासस्ते जनुप्रासनायकः ।
 - (v) शब्दबुद्धिकर्मणां विरम्य व्यापारामाव:।
- (vi) ननु समूहालम्बनात्मकपूर्वं धनानन्दसद्यस्य रसस्य च ताह्यवितररसिन क्यं विरोध: समावनीय: १.....स्यमुक्तम्। भतएवात प्रधानितरेषु रसेषु स्वातन्त्रः-वित्रामराहित्यात पूर्वंरसभावमाताच विलच्चतया सचारिरसनासा व्यपदेश: प्राचानाम।
 - 2. Explain Bhoja's remark :--

चालव्यनविभावेग्यः खेग्यः खेग्यः समुन्तियन् । रसो रखाटिकपेण भाव दखभिषीयते ॥

Does it materially differ from the exposition offered on the subject by later rhetoricians? Briefly indicate the rasonmeso theory as propounded by Bhoja.

Or.

How are you to satisfy yourself that यस्यितामूल-वस्तु-ध्वनि, स्पनाध्वनि, ज्ञिष, and समासीति—all differ from one another? Adduce instances to prove your point.

3. Bhoja regards स्वि, व्यतिरेक, and चर्चाक्तरवास as a śabdālankāra, an arthālankāra, and an ubhayālankāra respectively. Justify his position.

Or,

Indicate, after Visvanatha, the salient characteristics of any two of the following alankārs: আৰ্থ, লিখ্য, ভন্নায়, and দ্ৰালীক. Are there sufficient grounds for their recognition as independent figures of poetry?

4. Translate into English either of the following groups of verses:

GROUP A.

क्रवा कर्ताः पूर्वकरतः पुरस्तत् प्रत्यादरं ताः पुनरी चमाचः । तयैव जल्पे देव योऽन्यद्या ना स काव्यचीरोऽस्तु स पातकी च ॥ सर्वेजकल्पेः कविभिः पुरातकै-रवीचितं नस्तु किमिक सन्प्रति । प्रदंशनीनस्तु कुमायचीरपि प्रविज्ञा यत्तत् सङ्ग्री स विकायः ॥ गुर्वेषु ये दोवमनीषयात्वा दोवान् गुणीकर्त्तुंमधेशते वा। त्रोतुं कवीनां वचनं न तेऽहां: सरस्तीद्रोहिषु कोऽधिकार:॥ भयं कविनेष कवि: किमच हेतुमयुक्ति: क्रतिभिविध्या। त्रोतं मनयात यत: समधें वागधेयो द्वपनिद्वप्याय॥ निद्रां विद्र्यसि शास्त्रसं दणत्सि सर्व्वेन्द्रियार्थमसमधेविधं विधन्से। चैत्य विश्वमयसे कविते पिशाचि लोकस्रथापि सुक्रतो खदनुग्रहेण॥

GROUP B.

सान्द्रीभृतैष्वैवविटिपनां पृथितानां विताने
स्र भीवतां दधित मणुरापत्तने दत्तनेव:।

सयः क्रीड़ाभवनवलभीमृद्धिं विद्योतमानी

दध्यी सदासरलहृदयो गोकुलारखमैत्रीम् ॥

यासीम्रासैरथ तरिलतख्यलनाजीकमालः

कुर्व्वन् पूर्णा नयनपर्यसां चक्रवालै: प्रणाली:।

स्रारं स्रारं प्रणयनिविड्रां वस्रवोक्षिलच्यीं

दीचींतृकच्छात्रिटलहृदयस्रव चित्रायितीऽभूत् ॥

सनः स्रान्ते चण्मय पराम्रच्य पाराभिलाषी

कष्टाभीधेभवनिध्यते कृष्टिमान्तर्मिवष्टः।

सीत्कच्छीऽभूदभिमतक्यां यसितं कंसभेदी

नींदशाय प्रण्यलहरीवद्यवागुववाय॥

(GROUP B)

FIFTH PAPER

The figures in the margin indicate full marks.

FIRST HALE

Examiner-Dr. Prabhatchandra Chakrabarti, M.A., Ph.D.

Answer the THIRD question and ANY TWO of the rest.

15.

1. Explain the following :-

, i, r,

- (a) उदावचा: पदार्था भवन्तीति गार्थै: ।
- (b) विषयवत्वी दि इत्तयी भवन्ति।
- (c) यत्काम स्विवैद्यां देवतायामार्थपत्यमिष्क्रम् स्तुतिं प्रयुक्तो तहेवत: स

2. (a) What are the main principles of derivation enunciated by	15
Yāska? (b) Do you believe that Yāska was aware of the part played by	
imitation of sound in the formation of words?	
8. (a) Give the derivative meanings of the following words according to Yāska:—	20
माचार्यः। समुद्रः। लच्चोः। मर्जः। निषादः। यसुरः। यत्तः। पुराचम्।	
(b) Is there any internal evidence in the Nirukta that the	
Mahābhārata in any form was known to Yāka? 4. (a) How does Yāska support the eternality of sabda in face of	15
Opposition raised by Audumbarāvana?	
(b) Do you consider some of the etymological interpretations of Yaska more fanciful than real?	
5. (a) Name and illustrate the threefold classification of Rk verses.	15
(b) Comment on—ष्यापीदननारेख मन्त्रे खर्यप्रत्यश्ची न विदाते।	
SECOND HALF	
Examiner-M. M. PANDIT SITARAM SASTRI.	
प थसानानां प्रश्नानां मध्ये किमपि पश्चक सुत्तरणीयम् ः—	
1. त्रत्वसक्प्रातिशाख्यमेककर कमनेककर कं विति स्पपत्ति विचार्याभिमतं	10
निर्चीयताम् ।	
2. नात्योऽभिनिहितसैव चैप्र: प्रश्लिष्ट एव च ।	10
एते स्वरा: प्रकम्पन्ते धर्वाश्वस्वरितीद्या: ॥१॥	
षस्य ग्लोकस्य प्रातिशास्त्री प्रचित्रत्वमाश्रद्धाः सूपपत्ति निरस्वताम् ।	
 प्रातिशाख्यस्य वेदाङ्गलं भवति न विति संनीमांस्यताम् । 	10
4. परिग्रं सनार्धानात्तेन वैकाचरीक्षतात्।	10
परेषां खासमाचारं व्याद्धिसी चेत्सरी परी ॥१॥	
कारिकामिमां सीदाइरणां व्याच्यायं 'तरूनपाद' इत्यच तनूम्ब्दस्य सरं निचीय	
तस्य नपाक्कस्टपरत्वे संपद्मानी विशेष: सप्रमाचं निरुष्यताम्।	
 मार्शीयस्थीन् स्पर्धरिपस्थीनिभग्नयाय परिपादयन्ति । प्रवत्य-दीवाः सीदा- 	10
इरवं संप्रदर्शाः।	
6. दृशाय:, खितीव—इत्वत सस्त्तिम्मनस्त्रपं प्रदर्शे, उदस्+वस्यवः,	10
भूति: + चाहरी, प्रचेत: + राजन, परि + इत्यन्ति — चत सस्तं सन्धीन् संसाध्य,	10
चनुप्रदानास्तु सर्गात् स्थानास्त्ररणविश्वमात् ।	
जायते वर्षेदेशेषां परिमाचात्र पश्चमात् ॥१॥	
चस्य सीदाइरवमर्थः प्रदर्धताम् ।	
7. ऋक्पादज्ञानस्त्विद्यौकवानिकस्त्रिपाते कर्ण निर्णय स्ति प्रतिपायताम्।	10
8. अन्त्रसा वर्षनीवदिवतादिकं विविद्याचरच्यन्द्रसा मावाच्यन्द्रसा च विशेषं	10
क्रविक्रत्ये संप्रदर्श्वे, प्रसारमधीविष्टप्रत्यवानां सद्याय्युदाइरवे संप्रदर्श्वेनाम् ।	

(GROUP B)

SIXTH PAPER

FIRST HALF

Examiner-M.M. PANDIT SITARAM SASTRI

[Full marks-75.]

यथेकं प्रश्नपद्मकं व्याख्येयम्।

- 1. दौचचीयेष्टी ''सप्तद्य सामिधनीरनुब्र्यात्" इति सामिधनीसाप्तद्यस्य 15 विधानन तस्या प्रदेशकातित्वभाष्ट्रा युक्त्या तिव्वरासं। विधीयतास्। विं नाम विक्रतित्वन ? प्रकृतित्वं च किस ?
 - 2. प्रायणीयातिष्ययो: शंय्यङान्त्वविकल्पनाश्वद्भा तन्निरास: प्रदर्श्वताम्। 15
- 3. देववर्भ वा एतद्यात्रयाजायाज्ञायाज्ञायाज्ञमननुषाज्ञामाञ्च संशित्या अप्रतिशराय 15 सक्रदतिक्रस्यायावर्यात यज्ञस्याभिकान्या अनपक्रमाय।

यथाभाष्यं रेखाङ्गितस्थले ऽर्थंविश्रेषविवरणपूर्वमयं संदर्भो व्याख्यायताम्।

यहीक्षं वा एतत्प्रखगं नव प्रार्थं हा राज्यनी नवभिविष्यवमाने ख्वते ख्रीते सीमें द्यमं रहत्वाति हिंकार इतरासां दशम; सी सा सम्मा॥ सप्रसङ्गं सविशेषं सन्दर्भीऽयं व्याख्यायतां च।

- 4. चाइतिभागानां सोमभागानां च देवतानां खडपाणि व्याख्याय सीमपानाम- 15 सोमपानां च देवतानां संकां विलिख्य तह्ने दा यथाभाष्यं निरुध्यन्ताम्॥ विष्ठिष्यवभागार्थः प्रसर्पेणस्य कालं प्रकारं च यथाभाष्यं प्रदर्श्यः तच केवास्रतिकां प्रसर्पेणं भवित ? डीत्- सहवित न विति यथाब्राह्मणं भाष्यमन् रूप्य निरुध्यतां च।
- 5. इतिचङ्ख्यदरपङ्क्षिनराष्ट्रंसपङ्क्षिसवनपङ्क्षियज्ञानां खद्याणि कालास 15 विविधनान्॥ न्योतिष्टोमे होतुः शस्त्राणि कति कानि चैति विलिख्यादाशस्त्रम्य खद्यं सावान्तरविभागं विलिख्याताम्।
- 6. प्रचगयस्त्रे कति का देवता मर्वानः ? तासां च देवतानामग्नितन्द्यत्वसुचाते 15 यद्यात्राद्ययं तत्प्रदर्यताम् ॥ व्योतिष्टोमे सवनवयिऽध्यः होनोराष्ट्रावप्न तगरयोः सद्याचि यद्याक्षाच्यं विश्विक्षानाम् ।
- 7. सीमानयनविषयिणीमास्याधिकां विलिख्य प्रजापतेर्दुं हिवसिध्यानदपाया- 15-मास्यायिकायां प्रजापत्यादीनां नचत्रदपत्रसूच मानं यथा संगच्छते तथा प्रतिपादातास ।
- 8. चप्रिष्टीमात्माचीनानां तदुत्तरेवां च यज्ञानामग्निष्टीम्यानां वक्तस्वीन तत्प्रदेशाः 15-
- 9. ब्यूळ्ड बादमाड नवरावे वितीयसाक्षः सदयं देवता छन्दचादिसं सप्रमाचं 15 निरुष्यताम्।

कारन्या:। दिश्रां ज्ञृप्तय:। न्यृष्ट:। निनर्दे:। पारिचितय:। दर्भेपिकूला:। दीचितविभित:। संसव:। खागु:। एषामधी निष्णमां च।

10. तस्य नवित्यतं सोवियाः सा या नवितसे दय विवतीऽथ या नवितसे दयाघ 15 या दय तासानेका सोवियोदिति विवत्यां दिख्यते सोऽसाविववियोऽध्यादितसपित विवुवान्ता एव सोमानां दय वा एतसादबां सिल्लवता दय पदाची मध्य एव एकविय समयतोऽध्यादितसपित तदासी सोवियोदिति दैतसिव प्रध्य स्वाप्तायाद्वी स्वाप्

SECOND HALF

Examiner-Pandit Lakshminarayan Shastri, M.A.

Translate one poetry extract and one prose extract from among the following extracts into simple classical Sanskrit, adding notes wherever necessary to make the translation intelligible:—

(1) भवाधर्की सहतं माभिशतं

भूतपती पग्रपती ननी वाम्। प्रतिहितासायतां सा वि स्नाष्टं सा

नी हिंसिष्टं दिपदी मा चतुचाद:॥

गुने को है मा गरीराणि कर्भ-

मिवक्रवेश्यो राष्ट्रीश्यो ये च क्रचा भविष्यवः। मिचकाको प्रयापने वर्णाका ते विचनी मा विटनाः॥

क्रन्दाय ने प्राचाय याच ने भव रोपय:।

नमसे बद्र क्रफा: सहस्राचायामर्थ्य ॥

पुरसात ने नमः क्षण उत्तराद्वधरादत ।

मभीवर्गाट दिवाम्पर्धन्तरिचाय तं नमः॥

सुखाय ते पग्रपते यानि चच्चे व ते भवः।

लचे रूपाय संहत्री प्रतीचीनाय न नमः ॥

मङ्गेथस उदराय जिङ्काया माखाय ते।

दह्यी गन्धाय ते नमः॥

- (2) देवानां तु वयं जाना प्रवोचान विपन्यवा ।

 छक्षेषु मस्यमानेषु यः पर्यादुत्तरे युगे ॥

 ब्रह्मचस्पतिरेता मं कर्मार द्रवाधनत् ।
 देवानां पूर्व्यं युगेऽसतः सदजायतः ॥
 देवानां युगे प्रथमेऽसतः सदजायतः ।

 तदामा चन्यजायना तद्यानपदस्परि ॥

 भूजैन उत्तानपदो भुव चामा चजायना ।

 चिदितिचौ चजायत द्यादितिः परि ॥

 चिदितिचौजनिष्ट द्यं या दुद्धिता तव ।

 तां देवा चन्यजायना भद्या चवतवस्थवः ॥
- (3) महाइविचा इ वै देवा इवं अञ्चल्तिन व्याजयन येयमेवां विजितिरक यानिवैचा तिकान्तां याम इवव चाच्छे सानिवैतक्क क्यान् व्यावहना तानिरहरना यत् व्यानविद्यानाय यदेव एतेन यकते नाहिवैतक्य सं चनेतुकः क्यातीति देवा चेकुक्षेत्रितः

लेकेष एतत्कारोतीति या उ चैवास्य प्रजा जाता याचाजातासा उभयी क्षियात् प्रमुचिति ता चस्यानमोवा चिकित्वाः प्रजाः प्रजायने तत्वाचा एव एतेन यजते। ते वै रौद्रा भवन्ति कद्गस्य डोब्रेककपाला भवन्ते कदिवत्या चिकित्ति।

यावन्तो रुद्धासावन्तः प्रतिपुर्वषं भवन्यं केनातिरिक्ताः प्रतिपुर्वपनिवैतदेकंनैकेन या पर्यप्रजा जातासा रहियात् प्रमुख्येकेनातिरिक्ता भवन्ति या एवास्याजाताः प्रजासा एव तैन रुद्धियात्रमुख्यति ।

(4) देवाय इ वा चसुरायोभये प्राजापत्या चन्पर्वन्त तती इ देवा चनुयुविभवासुले इसुरा मिनिरे इसानं वा इटं सुवनिनित । ते इनुईन्तेना पृथिवों विभजान इ इति तो विभज्ञोप जीवामिति तानी च्या यस्त्रीभः प्रयात्प्राची विभजनाना चभीयुसदु इ देवाः यसुवि भजने इ वा इनां पृथिवी मसुरा इति । ते इनेनुः प्रेत तदेखान इति यहेनां इधिवी मसुरा विभजने के स्थान यदस्या न भजिमहीति ते इ यश्चनिव विष्युं पुरस्कृत्यान्यमुः । ते इनिन्देव नाऽस्यां पृथियां भजतिस्ययेव नोऽस्यां पृथियामस्तिति ते इसुरा चस्यना इती नुर्योवदिवेष विष्युरिभियेते तावदिव वो दश्च इति । वाननो इ विष्युरास तह्वा न जिद्दां पृथिया सम्ति विष्युरास तह्वा न जिद्दां पृथिया नो यश्चसम्बत्य स्वीनुर्यावदिवेष विष्युरास ना यश्चस्यान इत्या । वाननो इ विष्युरास तह्वा न जिद्दां भिरिभितः पर्यायक्षन् ।

(GROUP B)

SEVENTH PAPER

Examiners— { M. M. Anantakrishna Sastri. Mr. Kokileswar Bhattacharyya, M.A.

[Marks-100.]

1. Give in your own words the substance of the teachings embodied 2 0 in the discourse held between याञ्चवक्का and ভবৰ, as also between যাত্ৰৰক্ষা and করিব।

In this connection state distinctly how Sankara attempts to reconcile the apparent contradiction contained in the following line:—

"नन् वयमेवस्यैवातानः भद्यनायायतौतत्वं तदस्य इति विबद्धधर्भं समवायित्वमिति ॰''

- 2. Give in detail the nature of the discussion that took place between 20 वार्बी and बाजवल्का in the philosophical congress held during the reign of Janaka.
- 3. Describe the principal teachings about the three conditions of the 20 Finite Self as detailed in the story of মলাपনি and ৰন্ধ-বিবীখন given in the Chandegya Upanishad.
 - 4. Explain the following terms:—

Or.

A kind of Pantheistic view is embodied in the lines quoted below. How does Sankara refute this view?—

"चत केचिडा।चचते— मातावस्तुन: स्तत एव एकलं नानात्वस्य— यद्या गी: -गोद्रव्यतया एकलम्, सामादीनां भमांगां परस्परतो भेद:; यथा स्थूलीषु एकलं नानात्वस्य, तथा निरवयवेषु ममूर्णवस्तुषु एकलं नानात्वस्य मनुमेयम्। भातानोऽपि तहदेव दृष्टाद।नां परस्परं नानात्वम्, भाताना च एकलमिति।'

5. Translate the following into English :-

25

- (a) तमेव भीरो विज्ञाय प्रजा कुर्व्यीत ब्राह्मण:। नानुभ्यायाद वक्षन् मन्दान् वाची विग्लपणं हि तत्॥
- (b निष्ठ भग्निष्ठी चादी न्येव कामाणि । ब्रह्मचर्यं म. तपः, सत्यवदमम्, ब्रमः, न्दमः, भष्ठिंसेत्येवमादी न्यपि कामाणि इतरायमप्रसिद्धानि विद्योत्पत्ती साधकतमानि भस्तिकानि विद्याने ध्यानधारकादिलचकानि च।
- (c) स यथेमा नदः: खन्दमानाः समुद्रं प्राप्यासं गक्कान्ति भिदीते तासां नामक्ये समुद्र इत्येवं प्रोक्यते। एवभेवास्य परिद्रष्ट्रविमाः वोक्ष्यकलाः पुरुषायकाः पुरुषं प्राप्यासं गक्कानि भिदीते तासां नामक्ये पुरुष इत्येवं प्रोक्यते, स एकोऽकलोऽसतो भवति नदिव ज्ञोकः: :—

'चरा इव रथनाभी कला यखिन् प्रतिष्ठिता:। तंबेदां पुरुषं वेद मा वो चत्यु: परिव्यवा इति ॥'

(Group B)

EIGHTH PAPER

FIRST HALF

Examiner-M. M. SITIKANTHA VACHASPATI.

[Full marks-75.]

गोभिलग्टश्चास्त्रीयप्रश्चाः।

षधक्तनेतु सप्तसु प्रश्नेतु प्रश्नपद्मकसुत्तरकीयं तप प प्रथमपश्चीऽवस्त्रमन्तर्भावनीयः।

- 1. "यथादिश्रख' कथितदं स्वमनतारितमाचार्थेच ? कौड्रग्रं वा व्याख्यानमस्य ? 15 टीकाझदक्तरीत्या व्याख्यानमस्य ?
- 2. "ब्रह्मचारी वेदमधीत्यान्यां समिधमध्याधात्यन्" कवितन् प्रसन्ने त्वितिदः 15 स्थितम् ? न्याव्यायतामिदम्। नेदिनित्यत एकपचनं विविचितं न वा? विविचितत्वे न विविचित् प्रष्टव्यम्, चित्रविचतत्वे प्रमाचे देवम्। विवे समिक्रचर्णं व्यवन्याधाने कतिथा कालाः प्रदर्भिता चालार्थे १

- 8. ''यज्ञादिव निवर्तत'' सीपष्टकां सूत्रसिदं व्याव्येयस्। एवकारिणात्र किं 15 प्रतिपादितम् ?
- 4. "सन्धां पीर्वनासीसुपवसेत्' कः स्वस्योपष्टकः ? का नाम सन्धा 15 पीर्वनासी ? पीर्वनासीकालः कतिविधः ? उपवासपदस्य कोऽषः ? टीका- क्राह्मा खेळान्।
- 5. "भनुमिनता गुरुं गोवेषाभिवादयते" गुरुरप क:? गोवेषीत्यप कस्य 15 गीवेष ? पिटगोवेष भर्मगीवेष वा ? सप्रमाषश्चर्य लेख्यम ।
 - 6. "इन्द्रियाखित्तः संस्पृत्रीत्।'' 15 "घिची नासिकै कर्णाविति''

भाषनने एव ग्रह्मीक्तपाठक्रमी याद्य: उत क्रमान्तरम् ? तद्दीकीक्तदिशा खिल्यम्।

7. यज्ञोपनीतो, प्राचीनानीती; परमिष्ठिकरचन्, चौपनस्थिकम्, छपसीर्था- 15 भिचारितम्, व्युत्पत्तिं प्रदर्श्यं बट्टा एतं व्याख्येया:। तच च यज्ञोपनीती-प्राचीना- नीतिनी: किं लच्चम्?

SECOND HALF

Examiner-Mr. Harihar Banerjee, M.A.

[Full marks-25.]

Translate into idiomatic Sanskrit :-

Then I was one day caught among some thieves by the police, and taken to the place of impalement, in order to be put to death. At that moment, a great elephant belonging to the king, which had gone mad, and broken its fastening and was killing people in all directions, came to that very place. The executioners, alarmed at the elephant, left me and fled somewhere or other, and I escaped in that confusion and made off. But I heard from people that my father had died on hearing that I was being led off to execution and my mother had followed him. Then I was distracted with sorrow, and as I was wendering about despondent, intent on self-destruction, I happened to reach in course of time this great uninbabited wood. No sconer had I entered it, than a celestial nymph suddenly revealed herself to me and approached me, and consoling me said to me, 'My son, this retreat, which you have come to, belongs to the royal sage Vinitamati, so your sin is destroyed'.

25.

(GROUP C)

FIFTH PAPER

FIRST HALF

Examiner-M. M. ANANTAKRISHNA SASTRI

[Full marks-75.]

- 1. ''षणाती धर्मजिज्ञासा'' इतिस्वं यणाभाष्यं पूर्वीत्तरप्रविविचनपूर्वकं व्याख्याय 15 धर्मेलचणस्वं चोदनापदार्थनिद्वपणपूर्वकं पर्थपदसार्थकापदर्शनपूर्वकं च विविद्यताम् ।
 - 2. भधीलिखितानि वाकानि प्रकरणनिर्देशपूर्वकं व्याख्यायनाम् :--
- (1) श्रव्दकल्पनार्या च सा च श्रव्दकल्पना च; (2) श्रमुख इमिट्ं वचनसुपन्यसम्; (3) प्राचादिभिरीनसुपलभामहः; (4) पृथिबीचयनप्रतिविधार्ये च यहाकां चयनप्रतिविधार्थेभेव तत ।
- 8. फलकामादिपदैरेव स्तृतिसम्भवात् भर्यवादवाक्यानि किमर्यानि? निर्धवाद- 15 विधिष्यस्त्री निर्विधिकार्यवादष्यस्त्री च क्रयं स्तृतिविध्योर्दिकाः? कुषार्थवादस्य फल-समर्पकलम कृत्र च न १ सर्वे विविच्यताम ।
- 4. स्मृतिप्रामास्त्रे पाचारप्रामास्त्रे वा कथं 'चीदनालच्चोऽयों धर्मै' इति लच्च- 15 निर्वाहः ? यववराहाधिकरचस्य, साधुम्रस्याधिकरचस्य, पाक्कत्यधिकरचस्य च कथं धर्मविचारे छपयोगः ? सर्वे निष्क्रस्थाम ।
 - 5. षधीलिखितानामधिकरणानां पश्चावयवाः संग्रेखः विलिख्यनामः :-- 15
- (1) चिवाधिकरणम्; (2) प्रकरणान्तराधिकरणम्; (3) देवश्रधिकरणम्; (4) चपूर्वाधिकरणम्; (5) पश्रसीमाधिकरणम्।

SECOND HALE

Examiner-M. M. ANANTAKRISHNA SASTRI

[Full marks-25.]

Translate into English the following passages:-

- (a) यत्तदानीमिवीत्यदाति तदाऽऽकालिकम्। तस सर्वेलोकस्याभिमतम्, न यिष्ठरभावि। तस्यात् प्रवर्ण्यकालि दिस्ततीकाश्वकरस्यं प्राग्वंशस्य प्रश्चस्तते। तस्य सद्यः प्रम्कते याननुभवात् ; इतरत्तु कर्मजन्यं सत् कदाचिद्वविक्यति। कक्षेष्ठ ? शास्त्रगन्यं हि तत्। इदं तु सर्वप्रत्यसम्। तद्पेषया च श्वायमानिऽप्यश्चायमानवसन-मितरप्रशंसार्यम्
- (b) यदावैन्द्रियकलाइण्कादि-सुतीनां पौद्येशानमगम्यसं संभवति ; तद्यापि विभवसभूशिष्ठलादम्बर्धयवचनेषु पुद्येष्यनध्यवसानम्। इस्सने स्नानानिकानध्यान् चागिनकलाध्यारोपेय केष्यद्यालेऽपि चभिद्यानाः। तेन मन्यादिभिरपि किमण्यादि-सुतीदपक्षभ्य वेदसूवलं लिनवन्नानां प्रतिश्वातम्, छतानुपक्षभैव खेष्यशा तत् प्रतिश्वात-निति भवति सन्दर्भः। तावता च मामास्यविचातः।

(GROUP C)

SIXTH PAPER

FIRST HALF

Examiner-Mr. KSHITISCHANDRA CHATTERJEE, M.A.

यस्य कस्यापि प्रश्नपञ्चकस्योत्तरं खेळ्यम ।

[Full marks-50.]

1.	मीमांस कनय	चाक्तिवी	भ ब्दार्थी	व्यक्तिर्वाः	युक्त्युपन्यास १र:सरं	10
	विवियताम् ।				•	

- 2. किं तावदिधिकरणम् ? कित तस्याङ्गानि ? क्यान च तानि ? सीदा- 10 इरणमुत्तरं लेख्यम् ।
- 3. विचारशास्त्रमारभाणीयं वा न वीते सयुक्तिकं मतभिद्रप्रदर्शेनपूर्वकं प्रनिपादा- 10 ताम।
 - 4. षार्थेस्ने क्का धकर से सोपपालकं विविधतान ।
- 5. मातुलसुतापरिणयस्य द्वीलाकादीनाञ्च प्रामाख्यमप्रामाख्यं वा प्रमाणीपन्यास- 10 पुरःसरं विचार्यंताम्।
- 6. "क्रीणात्यक्षर्यय्येतत् सङ्गीर्णं वाक्रयैकभाक् ?'' सविसारं सयुक्तकं चीत्तरं 10 खेख्यम ।

SECOND HALF

[Full marks-50.]

Examiner-M. M. PRAMATHANATH TARKABHUSHAN.

वैश्वदेवेन यजेतित्यत वैश्वदेवश्रव्हस्य कर्मनामध्यत्वसुत्पत्तिश्रष्टगुणवलीयस्ता- 13
 दिति वादिनां मनं मौमांसान्यायपकाशोकदिशः विचार्यः व्यवस्थाप्यताम् ।

षधवा

नियमपरिसङ्कायोर्कचिषोदाइरकोपन्गसपुरस्वरं मिथी वैलचण्यं मीमासामाय-प्रकाशोक्तदिशा प्रांतपादाताम ।

2. पर्धवादप्रामाच्याधिकर् कैमिनौध-स्वायमाला-विकारमनुखत्य सम्यगारचा- 12 ताम्।

चायवा

प्रत्यचसुतिविरोधितया चप्रतीयमानाया चिप चृते: सुत्यननुमापकत्वाधिकरचं साधवाचार्यंदर्श्वितदिशा प्रतिपाद्यताम् ।

3. Translate any one of the following extracts:-

25

(1) " नतु नेष्टसाधनता लिखादिप्रव्यार्धः, किन्तु नियोगी मानान्तरागयः। स च धालयंषु नियोग्यं नियुद्धानः सामर्थ्यादधालयंऽत्य फलसाधनलं कल्पयित इति । नैतत् सारम्। चतुपपच्यभावात्। किं धालयंख फलसाधनलमन्तरेच नियोगस्य सद्ध्यमनुपपन्नम्, छत प्रवर्त्तेकालम् चनुत्रपन्नम् । नादाः। चसव्यपि फलि निल्व-नैनित्तिकानियोगस्य एत

खयमेव प्रवर्त्तव:? भारी पालकामनैव प्रवर्त्तयत कि नियोगेन? प्रत्यचादिष् फलकाननायाः प्रवर्तने स्वातन्त्राद्भैनात् । द्वितीये नदीवेगादिवन्नियोगः फलकानना-रिकतमी पुरुषं बलात प्रवर्भयेत । तथाच तत प्रवर्भकालं धालारंस्य फलसाधनला-भावेऽप्यपपन्नमः चन्ववा नदीवेगोऽपि फलसाधने प्रवर्त्तयेतः नियोगमावस्य धात्वर्धफलसंबन्धाकत्वकादिरिय फलकामिना प्रमीयमायो नियोगसत्कत्वत्व इति चेत्र। चवापि तयो: संबन्धमन्तरेषातुपपच्यभावात। न तावत कास्यफलस्य धार्वर्धसाध्यत मन्तरेणाधिकारिविश्रेषणत्वमनुपपन्नम । जीवनादीनाससाध्यानासपि जुडुयादित्यादिषु अधिकारिविशेषणलदशैनात "।

(2) " सम्यते हि कर्माकारके खाध्याये हिविधं इष्टफसमध्ययनिक्रयाजनितं फलवदर्यावबीपहेतुभृतप्राप्तः सस्तारसः। पर्यावबीपार्याचरग्रहण्यीः साध्यसाधन-भावस्य लोकसिङ्कतेऽपि न विधिवैयर्थे नियमार्थतातः। न च सस्कृतस्य विनियोगाः-भाव:। क्रतुविध्यपादानप्रभाणादेव विनिधीगसिद्धे:। क्रतुविधिर्द्धं खविषयावद्योध-मपेचमाणसस्य जनकत्या संस्कृतं खाध्यायमपादते। नन् उपादानप्रमाणं जानस्य जनकतया खाध्यायमापमादत्ते न संखार्शात चेत सत्यं तथापि कर्म्मप्रधानाध्ययन-विधिसामर्थादेव संस्कृतस्वाध्यायजन्यविश्वष्टज्ञानवतेवान् हितो यागीऽपूर्व्वं जनस्तीति कल्पाते। प्रधानवदनङ्गस्यायध्ययनस्य क्रतुकारित्वमविक्डम्, तत सभयविधिसामर्घाद विविचतार्थी लभ्यते। एव च ययास्ता-कर्मकारकगतहरूपलसंभवे सक्तन्यायेगास्ता-करणल-कल्पनमहरूपलकल्पनं चान्याय्यम्। नतु तव्यप्रत्ययेन प्रक्रत्यर्थभूताध्ययनीप-रक्तमपूर्वमिभधीयते न तु कल्पात इति चैन्यैवम । अपूर्व्वाभिधायितव्यप्रत्ययः खाध्याय-गतत्वेनैवापर्व्वमभिद्ध्यात्राध्ययनगतत्वेन। तत्र्यप्रत्ययय व नर्माभृतस्वाध्यायपरत्वात''।

(GROUP C)

SEVENTH PAPER.

FIRST HALF.

Examiner-M. M. SITIKANTHA VACHASPATI

[Full marks-50.]

- 1. अधस्यविषयत्रयात् यत् (कचनैकमादाय कचित् प्रवस्ती खेस्य::--10
 - (क) " प्राधान्यं हि मनी: खतम "
 - (ख) ''दशसंस्काराः''
 - (त) "पद्मसनाः"
- 2. अथस्य-प्रत्र-चतुच्यात् प्रश्रवयम् तर्चीयम् :--

तैवाश्मदम् समागां पुरुषायां मधीजसाम् । सुकाओ मुर्तिमातामाः संभवत्यव्ययाध्ययम ॥ स्त्र काक्षरिया वचनमिरं विश्वदीस्त्र व्याच्यायताम ।

8. दी देवे पित्रकार्य वीनेकैकसभयव वा।
भोजयेत् सुसस्होऽपि न प्रस जेत विसदि ॥
पासपिस्प्रक्रियाकर्य दिजाते: संस्थितस्य तु।
पदेवं भोजयेष्टाद्वं पिस्प्रमेकन्तु निर्व्यते ॥

10

वचनदर्ग व्याख्येयम् ।

- 4. छपाकक्षेण उत्सर्गस्य क: काणी मनुना दर्शित: १ तदनन्तरस घनध्याय- 10 कास: कीह्य: २ कानिचिदनध्यायकारणानि निर्द्धिस्थासाः।
- 5. पुठा: कतिविधा: ? तेषु के दायादवास्थवा: के वा भदायादवास्थवा: ? तः 10 व्य दिवसपुत्रक्य किं लच्चम ? प्रमाधिन समर्थय ।

चथस्थेष सुत्रेष सुत्रवर्य व्याव्हियम :---

 $5 \times 2 = 10$

- (कः ''भनुभाविनाश्च परिवापनम्''
- (ख) "पाप्रीत चेदधिदग्धे"
- (ग) "परिसष्टं खीडं प्रयतम्"
- (च) "नेमं लीकिकमधे पुरस्कृत्य धर्माखरित्"

पाधस्थेषु स्त्रेषु स्त्रहयं व्याख्येयम् :---

 $5 \times 2 = 10$

- (क) "उत्तरेषां चैतद्विरोधि"
- (ख) "जधमामनिवृत्तं चरेत्"
- (ग) 'ऋत्ययोऽपि इीने''

SECOND HALF

[Full marks-50.]

Examiner-Pandit Banamali Vedantatirtha

1. अपवर्त्त कर्मेचा वामदेव्यगानम ।

9

12

Why has it been suggested that the first word of the satra should be spelt as "भएडरो"? Is this emendation necessary? What is to be done if the sacrificers are unable to sing? Reproduce those rks that are to be sung. Is the Vamadevyagana (chanting) compulsory?

Or.

Explain the terms वद्यावती, पूर्णपात, पात्रयज्ञ, कर्बू, स्थार, लच्च, and quote two satras containing two of these terms, one each.

2. What are the subjects dealt with in Gyhyasatras as distinguished from dharma and stauta satras. Name five Gyhyasatras and mention for which class of people was each intended. How many tshis are mentioned in Gobhila? Name these and quote the opinion of one such tshi.

Attempt a short description of the new moon sacrifice after Gobbila.

3. (a) What are the aṣṭakās (মুহুলা)? How many are they? 10 What is the proper season for each? What particular offerings are recommended for each? Is the মুকুহুলা to be performed after each aṣṭakā? What is the precise time for its performance?

(b) गृब गोवेचाभिवादयेत्।

What is meant by the term me here? What are the words to be used in the salutation? Is the bride to mention the gotra of her father or of her husband? When does a woman cease to bear her father's gotra?

(c) Briefly explain in Sanskrit or Bengali or English :--

11

- (i) वृतीयस्य गर्भमासस्यादिसदेशे पुण्सनमस्य कोलः।
- (ii यदासी जुमारं जातमाचचीरन् घव ब्रूयात् काइन्त नाभिज्ञन्तनेन सन-प्रतिधानेन चेति।
- (iii) चर्रैनं संप्रेषयति ब्रह्मचार्थस्यसाविति। समिधमाधेकापीऽशानकर्म कुर् मा दिवा स्वाफोरिति।
 - (iv) अधैनामुदगुस्नुष्य संज्ञपयित प्राक्षिरसमुदक्पदा देवदैवस्थे।
- (v) शाचार्य्य च्हलिक् स्नातको राजा विवाद्य: प्रियोऽतिथिरिति। परिसंवत्-सरामर्डयेयु:।

(GROUP C)

EIGHTH PAPER

FIRST HALF

Examiner-Dr. Amareswar Thakur, M.A., Ph.D.

Attempt Four questions, including Question 1.

[Full marks-75.]

1. Quote Yājūavalkya's text on prescription and note his difference. 24 if any, from Manu on this point. Fully explain this text and discuss the theories that have arisen out of it.

17

- 2. How should the veracity or otherwise of a witness be tested? What are the punishments prescribed for perjury? How does the Mitakshara amplify the rule embodied in the text of Yajnavalkya?
- 3. Define svatva and state whether it is laukika or śāstrīya. What are the different modes of acquiring it? Give the substance of the discussion as to whether partition can lead to ownership.
 - 4. Define stridhana and write a clear note on its inheritance.

17 17

17

- 5. Note the distinction between sahasa and steya. Give the general rules regarding the punishment of this ves and mention in this connection the duties and responsibilities of the village-headman and of the king to the villager robbed.
- 6. Explain any four of the following verses and state in what connection they occur in the Yājňavalkya-smrti:—

(a) घरोगिचीं भादमतीमसमानावंगोपनाम्। पचनात् सप्तमानृषे नादतः पिद्यतसमा॥

- (b) भगाः सर्वेषु वेदेषु श्रीषियो ब्रह्मविद् युवा । वेदार्थविद्व्येष्ठसामा विमधुस्त्रिसूपर्यंकः॥
- (c) निक्रवे भावितो द्याञ्चनं राज्ये च तत्समम्। निष्याभियोगौ विगुचनभियोगाञ्चनं वहेत॥
- (d) खं खभितान्यविक्रीतं क्षेतुद्रींषोऽप्रकाश्चिते । शीनाद्रशे शीनमुख्ये बेखाशीने च तस्कर्ः॥
- (e) चनारा जन्ममरणे प्रेषाङ्गीभिर्विग्रध्यति । गभैसावे मासतुख्या निद्या: ग्रह्मस्त कारणम ॥
- (f) वालवासा जटी वापि ब्रह्महत्यावृतं चरित्। पिक्सानं वा कवान वापि भचयेच्चिसमा निश्चि॥

SECOND HALF

Examiner-Dr. Sudhendukumar Das, M.A., Ph.D.

[Full marks-25.]

Translate into Sanskrit :--

25

Verily, O Gargi, at the command of that Imperishable (Akshara) the sun and the moon stand apart. Verily, O Gargi, at the command of that Imperishable the earth and the sky stand apart. Verily, O Gargi, at the command of that Imperishable the moments, the hours, the days, the nights, the fortnights, the months, the seasons, and the years stand apart. Verily, O Gargi. at the command of that Imperishable some rivers flow from the snowy mountains to the east, others to the west, in whatever direction each flows. Verily, O Gargi, at the command of that Imperishable men praise those who give the gods are desirous of a sacrificer, and the fathers [are desirous] of the Manes-sacrifice. Verily, O Gargi, if one performs sacrifices and worship and undergoes austerity in this world for many thousands of years but without knowing that Imperishable, limited indeed is that work of his. He who departs from this world without knowing that Imperishable is pitiable. But, O Gargi, he who departs from this world knowing that Imperishable is a Brahman. Verily () Gargi, that Imperishable is the unseen Seer, the unheard Hearer, the unthought Thinker, the ununderstood Understander. Other than It there is naught that sees. Other than It there is naught that hears. Accross this Imperishable is space woven warp and woof.

(GROUP D)

FIFTH PAPER

FIRST HALF

Examiner-Dr. Surendranath Dasgupta, M.A., Ph.D.

प्रश्नवयं समाध्यम्।

- 1. कोहर्य प्रत्यचरैविध्यम् ? तत्स्वीकारे च कोपपत्ति: ?
- 2. ब्रह्मसाखात्वारस्य तत्त्वमस्यादिवाक्यजन्यत्वे कर्यं न ब्रह्मसी इतिस्थाधात्वम् ? इत्तिस्थाधात्वे वा कर्यं नस्य विकारिता ?

- 8. परिभाषाकारमने सामान्यप्रत्यासत्तः स्वीतियते न वा ? तदस्वीकारे च धूनत्वेन सकलधूनीपस्थिति विना कयं व्याप्तिज्ञानम् ? कयं वानुसानस्य सध्यतः ?
 - 4. की हमं जैंगिना व्यालम् ? प्रत्यचानुमानागरीर्वा वर्धं तत्साध्यते ?
 - 5. चनुपर्वास्त्रमाचस्वाकारे कोपपत्तः? वेदानिमग्रीऽविद्यानिम्नीः किंदपत्तम १
 - 6. वेदान्तसार्रीत्याऽहितीयात्मविज्ञानप्रकाली वर्षनीया।

SECOND HALF

Examiner-Mr. Satkari Mukherjee, M.A.

The figures in the margin indicate full marks.

Answer ANY THREE questions, of which the LAST must be one.

1. What is the necessity of postulating Vrti? Discuss any one of 121 the alternative views as embodied in the couplet :--

इत्तेषिदुपरागो वा अभेदव्यक्तिरेव वा। फलमाइतिभक्तो वा ॥

- 2. Write a short thesis on some of the important conceptions of the nature of the Sākain. What is the philosophical necessity of positing the existence of Sākain over and above the psychological ego?
- 3. Write a short dissertation on the theory of perception as propounded 12½ in the Pañcadasī with particular reference to the distinction between perception of fact (vişayapratyakşa) and perception of knowledge (jňana-pratyakşa).
- 4. Fully bring out the philosophical implications of the following 12% slokas:--
 - (a) नाइं ब्रह्मित बुध्येत स विनाशोति चेन्न तत्। सामानाधिकरस्थस्य बाधायामपि सक्ष्यात॥
 - (b) मणिप्रदोपप्रभयोमेनि बुद्धग्राभिधावतः। सिच्याचानाविश्रीवेऽपि विशेषोऽष्टेकियां प्रति॥
 - ८, निर्दाशः ानविभान्तेरभावादात्मनोऽक्षिका। युग्यस्थापि ससाचित्वादम्यशानोक्तिरस्य ते॥
 - 5. Translate the following passage into English:-

भवेदेतदेवं यदि प्रेचावत्प्रवृत्तिः प्रयोजनवत्त्या व्याप्ता भवेत्। ततसान्नवृत्तीः निवर्त्तेतं, विवयत्तिव व्यतानिवृत्ती । न लेतदस्ति, प्रेचावतामनमुर्वेष्टितप्रयोजनानापि याहिष्किकोषु निवर्त्ते प्रवृत्ति । भवाषा "न कुर्व्वीत व्या चेष्टाम्" इति धर्मस्यकृतां प्रतिवेषी निर्विषयः प्रसन्धेतः न चौन्यत्तान् प्रत्येतत् त्वनवेषत्, तेषां तद्यंवीधतदमुष्टानामुपपत्तेः । भिष् चाहण्णदेत्ताः चौत्पत्तिकी न्यास्प्रयासव्यव्या प्रेचावतां निया प्रयोजनामुस्यानमन्ति छष्टा ।..... यथा च सार्थपरावेसन्यदास्यादितः समझकामानां न्यतान्त्रत्यत्याः चनाकुल्यनम्यस्यामानामिव सत्यपि चनुनिचादिन प्रयोजनि कैव तद्ष्वेशन प्रवृत्तिद्वे ब्रह्मचेद्वे व्यवन्ति प्रवृत्ति विवर्त्वेशनाम्यक्षमतिद्वारं या तद्यवेषामनस्यवनवीर्यं वृद्धीनां सुवननीष्त्वारं या तद्यवेषामनस्यवनवीर्यं वृद्धीनां सुवननीष्ट्यस्ति वा ।

न हि वानरैर्माक्तिप्रश्वतिभिनंगेनं बद्धो नीरनिधिरगाधी महासखानाम्। न चैष पार्धेन विखीसुर्खेनं वदः। न चार्यं न पीतः संचिष्यं चुलुकेन हेल्येव कल्ययोनिना महासुनिना। न चाद्यापि दृश्यन्ते खीखामार्वानर्मितानि महाप्रासादप्रमद्वनानि श्रीममृग-नरेन्द्राणाम्भेषां मनसापि दृष्कराणि नरेन्द्राणाम्। तखाद उपपन्नं यहच्छ्या वा खभावाद वा खीख्या वा जगत्सर्जनं भगवतो महिश्वरस्थेति।

(GROUP D)

SIXTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-MM. N. S. ANANTAKRISHNA SASTRI

[Full marks-75.]

- 1. ष्रध्यासभाष्यस्य जिज्ञासास्त्रेण कः सम्बन्धः ? चैतन्यस्वरूपे कथनविद्य 15 सम्बन्धः ? ब्रह्मणः प्रसिद्धलाप्रसिद्धलयोविं चारायोगस्य परिहारः कः ? सर्वे विविच्यताम ।
- 2. ब्रह्मण: प्रायत्व-विकार्यत्व-संस्कार्यत्वाद्यसभाव: कयं साधित: ? कयं स भाष्ये 15 जाने विध्यसभव: समर्थित: ? क्रियापराणामेव वाक्यानां प्रामाण्यमिति मीमां सकाभिमत- नियमस्य कुत्र कुत्र व्यभिचार: ? सर्वे निष्क ष्यताम् ।
- 3. प्रधानकारणवाद: केषु केषु ऋधिकर्णेषु कथं कथं निरसः ? सांख्य-पातञ्चल 15 वैशेषिक-नैयायिक-सीगतपाञ्चराव्यपाग्रपतादीनां कथमसैतविरोधितम ?
- 4. घरैतासाधारणानि पञ्चवेदान्तवाकाानि स्ताणि वा संग्रह्म कथमत्र श्रीभाष्य- 15 काराणां व्याख्यानान्तरं न विरुद्धमिति विविच्यताम ।
- 5. अधीलिखितानि म्वाणि विषयवाकासंग्रहपूर्वंतं सति सतसेदे तिव्वदेशपूर्वंतं 15 च व्याख्यायनाम :—
- (1) चानन्दमयोऽभ्यासात् ; (2) चत्ता चराचरपश्चात् ; (3) मध्यादिष्यसम्भवाद-निधकारं कैमिनि: ; (4) चत्तराचेदाविभू तस्वदपस्तु ; (5) कार्यं वादरिरस्य गस्यपत्ते :।

SECOND HALF

Examiner-Dr. Sudhindra Kumar Das, M.A., Ph.D.

25

Translate into Sanskrit ony one of the following passages :-

(a) If you say that the one-ness of Brahman is his real nature, whereas Bheda is due to an overflow of Avidya, we ask: With regard to whom is this overflow of Avidya? It cannot be said of Brahman, because he is of the nature of Pure Knowledge. Nothing else, as Jiva, etc., really exists by his side to which Avidya can be ascribed. If you say that Avidya is indeterminable (Anirvacaniya), we do not understand to whom it is so.

If you urge that Avidya appears (Bhāṣate) in her proper form (Svarūpeṇa) but is not determinable, you are but talking nonsense. If, again, you maintain that she is indeterminable because she cannot be grasped by reason, we ask: of what avail is that reason (Yukti) which runs counter to one's inner experience (Sainvedana)? If you reply that Brahman is of the nature of the Existent (Sadrūpa) and is at the same time non-distinct (Abbinnam) and distinction arises only by the force of Vikalpa (Constructive Imagination), we ask: to whom does this activity of Vikalpa apply? It cannot belong to Brahman—nothing else being existent at the time. Moreover, you cannot draw a strict line of demarcation between Avikalpaka as truth and Vikalpaka as untruth, as both of them are equally manifested. If you say that Bheda is negatively obstructed (Bādhita' in experience despite its appearance, we reply that the same remark applies also to Abheda as it is obstructed by the appearance of Bheda. If this Bādhā (Obstruction) can be real (Sat) only because it manifests itself, why cannot Bheda for the same reason be real and not mere Avidyā?

(b) Everything has a beginning and an end is therefore false. The existence of all things is like a magical or illusory elephant (Māyāhasti) and exists only as far as it merely appears or is related to experience. There is thus the appearance of production, movement, and things, but the one knowledge (Vijāāna) is the unborn, unmoved, the unthingness (Avastutva), the cessation (Sāntaṃ). As the movement of burning charcoal is perceived as straight or curved, so it is the movement (Spandita) of consciousness that appears as the perceiving and the perceived. All the attributes are imposed upon the charcoal fire though in reality it does not possess them; so also all the appearances are imposed upon consciousness, though in reality they do not posses them. So long as one thinks of cause and effect he has to suffer the cycle of existence (Saṃsāra), but when that nation ceases there is no Saṃsara. All things are regarded as being produced from a relative point of view only (Saṃvṛti), there is therefore nothing permanent (Sāśvata). Again, no existent things are produced, hence there cannot be any destruction (Uccheda).

(GROUP D)

SEVENTH PAPER

FIRST HALF

Examiner-MM. Dr. BHAGABATKUMAR SASTRI, M.A., Ph.D.

The questions are of equal value.

[Full marks-75.]

Only FIVE questions to be answered.

1. How does Rāmānuja establish that where the knowledge of Brahman is prescribed there 'আৰু বিধীয়াই ... স্থান্য ছবি খানুবাহ: লক্ষম ছবি খানুবাহ:'? What is the nature of this আৰু ? Is it as good as মুন্তম ? How does it in the end identify itself with স্বান্ধি ? Why is this identity sought for by Rāmānuja ?

- 2. Establish after the manner of Rāmānuja—'निर्विश्चेषवस्तुवादिभिनिवैश्चेषे वस्तुनीदं प्रमाणमिति न शकाते वस्तुन्। How does Rāmānuja prove 'निविक्तस्यक्तमिप' (प्रस्यक्तं) सविश्चेषविषयभेव' ? How are निर्विक्तस्यक्तप्रस्यक्तं and सविक्रस्यक्तप्रस्यक्तं explained in other systems of philosophy ?
- 3. Fully explain, with a clear reference to and exposition of the rival view:—

'शहमत्त्रो मामन्यं च न जानामि'—इत्यचीपपत्तिसहित्रेन वेवलीन च प्रत्यचेष न भाव-इपमत्त्रानं प्रतीयते।

4. "सम्बे विज्ञानजातं यथार्थमिति सिद्धम्। स्थात्यन्तराणां दूषणानि तैसैर्वोदिभिरेकः प्रपक्षितानि"।

Fully explain Rāmānuja's view and the rival views in this connection, and refute the other views from Rāmānuja's standpoint.

5. Fully explain the view :-

'विचित्रावयवसित्रवैयविशेषतनुभुवनादिकार्य्यनिर्माणे पुख्यपापपरवयः परिमितशिक्षणानः चैत्रज्ञो न प्रभवतीति निख्लिभुवननिर्माणचतुरीऽ चन्यापरिमित्रज्ञानयक्तैप्रत्रय्यीऽयरीरः संकल्य-मात्रसाधनपरिनिष्यन्नानर्मावसारविचित्ररचनप्रपञ्चः पुरुषिश्चेष देश्वरीऽनुमानेनेव सिध्यति'... किन्छ 'त्रात्यन्तिभन्नयोरेव सदद्रव्यकुलालयोर्निमित्तोपादानत्वदर्भनेन त्रात्वाधादिर्विरवयवद्रव्यतात् कार्यात्वानुपपत्था च नैकमेव बन्न क्रत्यकृतस्य अगतो निमित्तसुपादानस्य प्रतिपाद्यितुं स्रक्तंति'।

How does Rāmānuja prove the hollowness of these contentions?

6. Explain the apprehensions :-

वैदान्तवाकानां प्रवित्तिवित्तप्रयोजनविधुरत्वाद् ध्यानिविधिशेष्टेऽपि ध्येयविशेषस्वद्य-समप्रेणमावपर्य्यवसानात् स्वातन्तेऽपि बालातुराद्युपक्कन्दनवाकावत् ज्ञानमावेशैव पुरुषार्थ-पर्यान्ततासिङ्के य पिरिनणववस्तुस्यतागोचरत्वाभावादं ब्रह्मणः शास्त्रप्रमाणकातं न सभावति ।

How are the apprehensions removed?

7. Sum up, from the prescribed portions of your text, Rāmānuja's views about Soul, Nature, and God, and shew how they materially differ from Sankara's views. What difference in the fundamental psychological standpoints leads to this difference of views?

SECOND HALF

Examiner-MM. GURUCHARAN TARKA-DARSANTIRTHA

[Full marks-25.]

विष्वे कतमस्य उत्तरं कार्यम्।

- 1. बीडानां विज्ञानगदः कीष्टगः ? तत्खन्छने च चहैतवादिसन्त्रता का वृक्तिः 📍
- 2. बायसमात: सिंहजम: जीहर: ? तत्र वैदान्तिकासमाती च की हत: ?
- 8. भैयायिकसमारासत्तायाः खब्दने भद्देतिसमाता युक्तिः बौड्यो १

(GROUP D)

EIGHTH PAPER

FIRST HALF

Examiner-Mr. Kokileswar Bhattacharyya, M.A.

The questions are of equal value.

Only FIVE questions to be answered [Full marks—50.]

- 1. Explain, after Sankara, the following two stanzas, and try to suggest a solution of their apparent contradiction:—
 - (a) योगसंन्यलकक्षीचं ज्ञानसंक्रित्रसंग्रयम्। चात्रवन्तं न कर्चाचि निवर्धान्त धनस्रय॥
 - (b) संन्याम: कसंयोगस नि:श्रेयसकरावुभी। तथोस्त कसंसंन्यासात कसंयोगी विशिष्यते॥
 - 2. (a) Comment philosophically on the following:-

"चैत-चेतजी येन जानेन विषयीकियेने तज्जानं सम्यक जानमिति सतं सस्"।

(b) Give some of the different interpretations of the following line as suggested by Sankara together with your own view:--

"ब्रह्मणो डि प्रतिष्टाडमस्तरगव्ययस्य च"।

- 3. Write a short note on the বিশ্বৰূप described in the Gita.
- 4. What do you understand by the term সামসাৰ as employed by the Naiyayikas? Show by what arguments Sankara has established the Vedantic ধন-কাঠ্যবাহ, after refuting the সমন্-কাঠ্যবাহ।

And in this connection explain the following line :-

''रज्वादावयवेश्यः सर्गादसंस्थानवत् बुद्धिपरिकस्थितेश्यः सदवयवेश्यः विकार-संस्थानीपपर्तः''।

- 5. Write philosophical notes on বিশ্ব, বীলন, ঘাল and ব্ৰীয়—as explained by Sankara in the Māṇdukya Upanishad, showing their interrelation.
- 6. How would you reconcile the illusoriness of the world with the following:-

"यदि इ असतामेव जन्म स्थात् ब्रह्मचोऽन्यवद्यायस्य गद्दवद्याराभावात्। असत्त्वप्रसद्यः"।

SECOND HALE

Examiner-Mr. Banamali Vedantatirtha, M.A.

The figures in the margin indicate full marks.

[Full marks-50.]

1. Write a short essay, quoting or referring to verses of the Kāṭhakopa-nishad in support of your statements, on the means (upāya) that are to be adopted in order to know the self.

Or.

Examine the doctrine that the conception of māyā is foreign to the Brhadāranyaka Upanishad.

2. (a) Explain fully :-

(f) जात एव न जायते को न्वेनं जनयेत् पुन:। विज्ञानमानन्दं ब्रह्म राति दातुः

परायणम् तिष्ठमानस्य तद्विदः॥

- (il) जध्ये प्राणसुद्रयति चपानं पत्थगस्यति । भध्ये वामनमासीनं विश्वे वेदा उपासते ॥
- (i) खप्रान्तं जागरितान्तं चीभौ येनानुपर्यति । महान्तं विभूमात्मानं मत्ना चीरो न शोचिति ॥
- (ii) भौ पूर्वभट: पूर्वभिटं पूर्वात् पूर्वभुदच्यते। पूर्वभ्य पूर्वभादाय पूर्वभेवावशिष्यते॥
- (b) Give a summary of the teachings of the Maitreyi Brāhmana (Brib. Up. IV. 5).
 - 3. Translate into English :-

एतेन मृव बाख्याताव्याख्याताः (ब. मू. २।४।२८)।

षव पुरुषम्कादीनां इ झबोधकलमस्ति न वेति संगय: । संगयवीजं प्रकरण-भेदादिकाम् । कमंपकरणगतानां पुरुषम्कादीनामनुष्ठावजीवपरलमेव समीचीनम्, न नित्यसुक्त-ब्रह्मविषयलं प्रयोजनाभावात् । स्मृतिपुराणादीनामपि नैकार्थपग्तमस्ति यतस्तेषु कतिचित् ब्रह्माणं परं ब्रह्मेल्याषु: कतिचिद् विष्युम् कतिचिदुद्रं कतिचिच् यक्तिम् । एवमनवस्था भवति दत्यतः एतेषां न ब्रह्मवोधकलम् ।

8

(GROUP E)

FIFTH PAPER

FIRST HALF

Exuminer-Dr. Prabhatchandra Chakrabarti, M.A., Ph.D.

[Full marks-50]

Answer either Question 2 or 5 and ANY TWO of the rest.

- 1. (a) What arguments have been advanced to establish the fact 16 that an entity does not come out of non-entity?
 - (b) What is the force of বুঁছুল in the aphorism 'বুঁছুমুখুব্লিন্ধি; বিশ্বা' ?
- 2. (a) State the ground on which the Sāmkhya school supported the 18 reality of the world in contradict on to the Vedānta doctrine of unreality.
- (b) What system of Hindu philosophy interprets mukti as the manifestation of eternal joy? How does the aphorism 'লাল-হামিঅল্লি-স'লিলিখন্টালবোন' refute it?
- 3 (a) What evidence is there for the assumption of a subtle body? 16 How do you distinguish a gross lody from a subtle one?
- (b) Has the world a beginning? If so, does it evolve from prakti or puruga? Give reasons for your answer.
- 4. (a) Show from the Sāmkhya point of view that the summum bonum of life (paramā-puruṣārtha) is only attainable through the entire cessation of pain.
 - (b) Write a short essay on: 'न जुदापि कोऽपि सखीत'।
 - 5. (a) Explain the following sūtras after Aniruddba:-

18

वाद्यावं तुन तत्त्वं चित्तिस्थिते:। मुक्तवद्वयोरन्यतराभावात्र तिसिद्धि:। न नियातं वेदानां कार्यत्वस्रते:। न कारचलयात् क्रतक्रत्यता मग्रवदत्यानात्।

(b) Elucidate the following vrtti:-

'यसम्बन्धि उमिलनुमानश्रन्दी व्यविक्ति । तत्प्रत्यचिमित सविक्रसक्तमिप प्रत्यचं संग्रहोतम्। बौडासु निर्विकस्यकमेव प्रत्यचमिति वर्षयमि,—कस्पनापोदमस्यानं प्रत्यचमिति'।

SECOND HALF

Examiner-Mr. Kokileswar Bhattacharyya, M.A.

[Full marks-50,]

1. Enumerate the three sorts of pain or suffering (दु:खूबद्)—the imperfections 'flesh is heir to'. What are the ordinary remedies suggested by which they may be obviated?

Why is the cure of worldly evil not to be effected by such remedies as are of ordinary application?

2. Fully explain and meet the objection against Samkhya that 'if 10 effect exists already, it is absurd to produce what is already extant'.

Or.

Discuss the Samkhya view of uniw's.

10

3. ''इपै: सप्तिभरेव बन्नात्वात्मानमात्मना प्रक्रति: सैव च पुरुषार्थे प्रति विमोचयत्वेकइपेव।" 9

Here, what are those seven modes by which Nature (vafa) binds herself of her own accord, and she liberates herself by one mode? What is that one mode and how is it produced?

What do you understand by 'पुन्तवार्थ' ?

4. Translate the following extracts into Euglish :-

2

- (८) प्रची यती दांगैतविषयी बुडिमस्त्रेन निवेदितविषयीऽतः सस्त्रे तप्यमानै प्रतिविषयिष्योऽतः सस्त्रे तप्यमाने प्रतिविषयदेपेख बुडिसस्त्रसमानाकारो भवत्रत् तप्यतः रात्ते सूद्रै है स्थाने चनुतप्यतः दवेत्ययः। न तु खाकारप्रतिविष्यनातिरिक्तं विषयनिवेदनमपरिणामिनि सभावति। तथा च प्रतिविष्यख्यस्येण भोगाष्यसम्बन्धेन विद्यामिप दः खस्य देवत्वात्र पुरुषार्थासभावद्येषः।
- (b) यदापि प्रति प्रति । स्वताःत स्वताःत स्वागः स्वतोति व्युपस्या ससंज्ञाचित-सर्व्यानुगतः परमात्मैन मुख्यः प्रत्यक्षश्चरायः ; तथापि ईश्वरादिशस्त्वदेव प्रत्यक्शस्तेऽपि जीवे गौषो ।वभुत्वात् । स्वत्य प्रकृतित्यावर्त्तनाय चैतनेश्वक्षम् । यदि च प्रत्यक्शस्यः परिमवाचौ तथापि मन्त्रप्रवाविभृते ब्रह्माक्षेत्र मुख्योऽन्यत गौष इति ।

(GROUP E)

SIXTH PAPER

FIRST HALF

Examiner-MM. Dr. BHAGABAT KUMAR SASTRI M.A., PH.D.

The questions are of equal value.

[Full marks-50]

Only FOUR questions to be answered, but the 7TH or the STH must be one of those four.

- 1. Explain 表面面面 如何面面 according to the Samkhya system. How does 如何 arise? How far does it affect the gaq? Explain the different Samkhya views in this connection.
- 2. What sorts of was are explained in different schools of philosop'ny? How does the Samkhya school refute the other view points?
- 8. How are the त्याव's, इन्ट्रिय's, भहंतार, मुद्धि, प्रकृति and पुद्ध to be inferred according to the Samkhya system? Fully exhibit the modes of inference.

- 4. How is the final cause inferred or established in other systems of philosophy? How does Samkhya refute their views?
- 5. 'There is one soul and not more than one and there is nothing but the soul.' Can this view stand? Can আৰহ be proved to be a constituent part of the soul?
- 6. What different views about wist are held by different philosophical schools? What is the Sāṃkhya view? Does it differ from the Yoga view? How far does the mere idea of the external world prove its existence according to Sāṃkhya?
- 7. "तव यद यसादु जायते तस्य तदापूर्यमेव स्थिति:। ततसस्य संहारोऽपि तस्रैव भवति'।

Fully explain this mode of wigger in the light of Vijfians-bhikshu's interpretation. Do the other schools of interpretation fully agree with Bhikshu?

8. Fully explain :-

चिन्नावाननायस्थानी पुनर्धंपवनित्ताः।
सत्त्वादियस्यो यान्ति विश्व हुद्दपताम् ॥
यतः द्रेयस्वित्वे नगतः मन्निधानतः।
मचित्रत् प्रोरकत्वेन जडानामयसामिव॥.....
सर्व्वयत्तिमयो स्वात्मा यक्तिमच्छलतान्हवः।
संसारं तन्निहत्तिस्य माययाप्रीति हेल्या ॥

SECOND HALF

Examiner-Mr. Nalini Mohan Sastri, M.A.

[Full marks-50.]

1. Translate into Sanskrit :--

Either.

(a) The reality of a higher active faculty in us, is made certain by the fact of moral law, which is nothing else than a law spontaneously imposed on the will by reason itself. The moral law stands high above lower active faculty in us, and with an inward irresistible necessity, orders us, independence of every instigation of sense, to follow it ab-olutely and unconditionally. All other practical law relate solely to the empirical ends of pleasure and happiness; but the moral law pays no respect to these, and demands that we shall pay them none.

Or

(b) From the proposition, 'I think, therefore I am.' there follows the whole constitution of the nature of spirit. In investigating, namely, who then are we, who thus hold all things for false that are different from us, we see clearly that without destroying our personality, we can think away from ourselves everything that belongs to us, except our thought alone. Thought persists even when it denies all else. There cannot belong any extension, therefore, any figure, or anything else that the body may possess, to our true nature. To that, there can belong our thought only. I am then essentially a thinking being, that is to say spirit, soul, intelligence, reason.

- 2. Determine the functions of Manas, Buddhi, Ahamkara and 123 Sakshma-sartra in the evolution of the Universe after the manner of Tattrockarmuds.
- 8. Either,
 Give a clear exposition of the final end of the Sankhya philosophy and of the means of attaining it. What are the three kinds of Bandha?

 Or.

How does Vāchaspati Mišra reckon the Sānkhya as Apta-Sruti? Examine his arguments against Vivartavāda Elucidate the following verse quoted by him:—

भराचे नासि सम्बस् : कार्यैः सत्त्वसङ्गिः । भरामबुख्य चीत्पत्तिमिक्कतो न व्यवस्थितिः ॥

(GROUP E)

SEVENTH PAPER

FIRST HALF

Examiner-MM. PANDIT SITARAM SASTRI

[Full marks-75.]

किमपि प्रश्न-पञ्चकं व्याख्यायताम ।

- 1. ईश्वरखीकारावश्यकतं तत्स्वद्यं तत्र प्रमाणं च प्रदर्शं तस्य प्रवृत्तिप्रयोजनं 15 सम्बन्धिविचाताम्।
- 2. इंश्वरप्रविधानस्य स्वद्धं फलं च प्रतिपादा ततः स्वद्भपदर्शनप्रवाली भाष्यक्रदु- 15 प्रदर्शितीपन्यस्थताम ।
- 3. चन्तरायान् संख्यातो नामतो लचणतय निबच्च तत्प्रतिकारोपायो युक्तियुक्तो 15 विलिख्यताम् तदुपायध्वीकारो यन्त्रते यथा न संभवति तदायाभाष्यं संप्रदर्श्यं सिद्धान्ते तह्येषाप्रप्रिप्रकार: प्रदर्श्यंताम ।
- 4. विषयवती ज्योतिषाली: प्रश्नचोर्लंचचे फले च प्रतिपादा समापत्ते: खद्दपं भेदास 15 सब्बारं विलिख्न नाम।
- 5. चवयव्यस्तीकर्टं मतं संप्रतिपादा तत्स्तीकारवाचोयुक्तिं विश्वदं संप्रदर्श्य 15 वितर्कं विचारतं संप्रदर्श्य विश्ववे विकारतं विश्ववे विष्यवे विश्ववे विष्यवे विश्ववे विश्ववे विष्यवे विष्यवे विष्यवे विष्यवे व
- 6. कर्माययथैकभविकत्वानिकभविकत्वहण्ण न्यावेदनीयत्वाहण्ण न्यावेदनीयत्वाहि 15 स्विक्तरं निक्ष्य "न चोत्सर्गेस्थापवादान्ति इत्ति (स्थैकभविक: कर्माययोऽनुकायते" इति भाष्यपक्षत्वेदाययो विस्पर्ण निकृष्यताम ।
- 7. परिचानतापसंस्कारदु:खतानां सदपाचि प्रवर्धः दृश्यसद्यं यथान्यभाषं 15 विश्वस्थाताम्।
- 8. (a) शब्दार्थप्रवायानां संवरं सोदाइरणं निष्या तत्पविभागे संग्रातन्तं 15 प्रदर्श्वताम्। (b) वस्तुनो ज्ञानानतिरिक्तलवादमेकचित्तत्वलवारं च निष्या तिविराक्तरचं समुक्ति प्रदर्शताम्।

- 9. (a) भीचे भारान: खडपे वेदान्तिमतं संप्रतिपादा यौगनयेन तिव्रद्ध 15 योग्यभिमृत: सिडान्त: प्रतिपादातां यथा-भोजवृत्ति। (b) भभिन्यक्रायायिष्क्रके: खडपं तत्स्वीकारावध्यकलं तव द्र्यैन।न्तरकाराणां विप्रतिपत्तिसविद्यासप्रकारय प्रदर्शकां यथा-भोजवृत्ति।
 - 10. योगत्यासाधारणं फलं वात्तिंककाररीत्या विग्रदं निद्धायताम्।
- 11. जीवेश्वरयोर्विषये प्रतिविक्ववादमवच्छेदवादं च सुनिक्ष्य योगाभिप्रेत; 15 सिद्धानी यथावार्तिकं निक्ष्यताम्।
- 12. योगस्य लच्चणं यथावार्त्तिकं सम्यग् निक्ष्य, ईश्वरस्य भीगविषये वार्त्तिकः 15 कारमतं सयुक्ति विवादं निक्ष्यताम्।

SECOND HALF

Examiner-MR. DEBENDRANATH RAY, M.A.

[Full marks -25]

- 1. Translate into English :-
- (a) भय कीऽयमात्मा ? ननु संविद्येव न तु चैतनाविश्विष्टदेष्ठ इत्युक्तम्, भयरीरं वावसनां प्रियाप्रिये न न्युगत इत्यादि-युति-। माणात् । सा खलु संविद् भनुभूतिज्ञानावगितपर्याया सकलविषयां वर्षाची निरायया च । सा ष्टि चिद्रूपा सर्य-प्रकाशा न तु भनुभवितुरात्मनो धर्मविश्रेष:। भविक्रियस्थात्मनो ज्ञानिक्रयाक्तम् त्व- रूपं ज्ञाद्यतं न सम्भवति । कर्मृत्वादिष्टं इपादिवद् ह्य्यधर्मः। कर्मृत्वे च भषं-प्रत्ययगोचरत्वे च भात्मनंऽस्थपगम्यमाने देइस्थेव तस्य पराक्षक्रक्रवादिप्रसङ्गः स्थात्।
- (b) संचिपेष विविध एव प्रस्थानभेदः। तवारक्षवाद एकः। परिचास-वादो हितीयः। विवर्षवादकृतीयः। चनुर्विधाः परमाणवो ब्रह्माण्डपर्य्यन्तं जगदा-रभन्तेः असदेव कार्ये कारकं-व्यापाराद उत्पद्यते हति प्रथमः। विगुचात्रकं प्रधानभेव जगदाकारेण परिचामतेः पूर्वमि स्चादपेण सदेव कार्ये कारणव्यापारेण प्रभिष्यच्यते। ब्रह्मणः परिचामो जगत् हति वा वतीयः। सचिदानन्दमहितीयं ब्रह्म स्वमायावशान् मिथ्यैव जगदाकारेण कल्यातं हति वतीयः पचः ॥

(GROUP E)

EIGHTH PAPER

FIRST HALF

Examiner-MM. Durgacharan Sankhya-Vedantatirtha

The questions are of equal value.

(एवं प्रश्नेषु प्रश्नवयायीत्तर देवन ।)

1. की गाम पविशासाय:? स च कर्य पार्व्याची: खब्दित:? किमधे वा वीते: समर्थित:? तत्वकान-समर्थनप्रकार्य कीहत:? पविशासायसीकारे पार्व्याकास्य

का चितः, बीडानां वा को लाभः ? चार्व्याकमते चाकायय भूतवर्गे सम्निविधोऽसि न वा ? नासि चेत्, तस्य कविम्नन्तर्भावः ? 'चार्व्याक'मस्स्य कोड्यो व्युप्पत्तः ? सर्व्यमितदायाययम्ब्यताम ।

2. ''षट्केन युगपद योगात् परमाणी: षड् शता। तेषाभप्येकटेगले पिष्ठः स्याटणमावकः ॥''

विश्वद्याल्यानेन श्लोकोऽयं स्पष्टायं: क्रियताम्। केन किमर्थमयं श्लोकः समुद्रुतः ? तद्भिप्रायसिडौ चान्य श्लोकस्य कोह्य छपयोगः ? 'घट्कैन'इति पदिनाव कीहर्यं बट्क विविचतम् ? बौहानां सौचान्तक-वैभाषिक-योगाचार-माध्यमिकेति संज्ञा-भेदे किं कारचम् ? तेषां मतभेदाय संचिष्य निरुष्यनाम्।

- 3. शक्रसमातमिवानुमानसुपस्त्राच्य रामानुजीपदर्शितं तत्प्रतिप्रथीनं च यद्याययं प्रदर्शे, तयी: कतर: पच: श्रोमांद्र: साधायान् मन्वति, युक्तित: प्रतिपादातां तत्। जीवस्य खब्दे, मोचे, तद्याये च शक्रर-रामानुजमतथो: कीहशो भेद द्रस्थेतद्पि निरूप्यताम्।
 - ''विपदार्थ चतुषादं महातन्त्रं जगद्गुत्। स्वेषैकेन संचिष्य प्राह विसरतः पुनः॥''

षस्य श्लोकस्य समुत्यानकारणं निर्द्धिया, के तं तथः पदार्थाः कौष्टमास, के वा ति षद् पादाः, किं तत्महातत्वम्, की वासी जगद्धुकः, किंष तत् सूत्रम्? सर्व्यमितत् स्पष्टं निरुष्यताम्। शैवमते पग्रभेदः कार्तावधः? कास ता विधाः? जीविश्वर-कम्मोचाणां सद्धाणि तद्वीदाय कोष्टगा इत्योग निर्द्धियताम्।

5, गांतमेन वेदस्यापीनमले की हशंप्रभाणसुपन्यसम् ? तदुपन्यस्य ''वेदस्थाध्ययनं पूर्व्वं गुर्व्वध्ययनपूर्व्वकम् । वेदाध्ययनसामान्यादधनाध्ययनं यथा॥''

इत्येतद्वाकां यद्यंभूपन्य नं तदुपपादाताम् ।

काणाददर्भंनं गीतमदर्भनं च समानतन्त्रतया प्रसिद्धम्, तयीय कया विधया समानत्वम् ? प्रमाण-संशय-विपर्थयादोनामनात्मपदार्थानां तत्त्वचा ं निःश्चेयकाधिगमे कयं कारणं भवति इत्येतस्वर्षे सम्यगुपपादाताम्।

SECOND HALF

Examiner-Mr. Satkarı Mukherjee, M.A.

[Full marks-50.]

Attempt any three questions, of which the last must be one

- 1. Write a critical estimate of the conception of Vairāgya as 12½ expounded in the Yogavāsistha Rāmāyaṇa and elucidate the philosophical basis of Vairāgya as a means to perfection
- 2. Write a short thesis on the world-view of the Yogaväsistha and 122, show the place of moral and esthetic values in this scheme of philosophy.
- 3. Give a brief account of the salient features of childhood and youth 122 that have received the trenchant censure at the hands of Ramachandra.

4. Translate the following into Sanskrit:-

The existence of a finite world at all seems, in short, to involve the clash of individualities which tend to go their own way and seek their own ends. And if this involves an element of continency in the world of moral action, the same would seem to be true of the world of nature which is the theatre of action. Naturemay be regarded, on the large scale of history, as the instrument of man's moral and intellectual education; but that does not mean that we are bound to take each of nature's happenings is the exponent of a particular moral purpose. The religious man will, no doubt, seek to accept whatever happens to him as from the hand of God, and by doing so he will make this account of the occurrence true, because he thereby transmutes the event into an instrument of spiritual glowth. But the spirit in which he meets the experience does not. I think, imply that he traces the event, as a natural occurrence, to the operation of a particular providence. And it is needless to say that such is not the broad impression we derive from the facts of life.

(GROUP F)

FIFTH PAPER

FIRST HALF

Examiner-Pandit Panchanan Tarkabagis

[Full marks-75.]

प्रथमप्रश्वस्थीत्तरम् चवस्यं कर्त्तस्यम्। चन्येवां प्रश्नानां मध्ये प्रश्नचतुष्टशस्योत्तरं देयम्।

- 1. भाष्यकारप्रदर्शितरीत्या प्रमाणस्य भावगाइकत्ववदभावगाइकत्वमपि समर्थेष । 15
- 2. "मंत्रयादयो हि यथासमार्थे प्रमाश्चेषु प्रमियेषु चान्तर्भवन्ती न श्वितिरचान्त इति"। 15 चन्नेदं पृच्छति, नाया रीत्या संत्रयादीनां प्रमाश्चेषु प्रमियेषु चान्तर्भावः सावित्रदीक्वत्य कितिपयेषु स्थलेषु प्रदर्शनीया।
 - 3. "प्रमाणैरर्थंपरीचणं न्यायः"

15

व्याव्यायतामिदं भाष्यं वार्त्तिकरीत्या।

चिप च 'प्रनायै:' इत्यव बहुवचननिहें केन कौडग्रीऽभिप्राय: प्रकटिती शाधकारिय ?

4. इन्द्रियार्थसिक्तवर्शियत्रं ज्ञानमञ्जपदेश्यमव्यक्षिचारि व्यवसायात्मकं प्रसच्चम् 15 इति स्वम्।

प्रतिपदव्यावृत्तिप्रदर्भं नपूर्व्वकं व्याख्यायतासिदम्।

- 5. कथितम्बेऽव्यक्षिचारिपदस्य तद्व'त तत्प्रकारकितस्याकारकेऽचे कर्राव्ये निर्व्धिकस्य 15 कव्य प्रकारविश्रेष्यभावरिहततया सम्भवनौ तक्षाव्यानि श्रीतकारप्रदर्शितरीत्या खब्धयः।
- 6. प्रमाणादिपदार्थतत्त्वज्ञानानिः श्रेयसाधिगम इति कायदर्शनस्य प्रथमवास्यस् । 15 सतेदं प्रस्थाते, क्या रीत्या प्रमाणादि तत्त्वज्ञानस्य निःश्रेयसः हेतुत्वस् ?

7.	सरखिप बहुबु प्रमियेषु त्रात्मारापवर्गपर्यान्तपदार्थसैव कर्ष प्रमियतया उन्नेख: ?	15
8.	'साध्यनिहें ग्र: प्रतिज्ञा''।	15
	भाश्वकारप्रदर्शितरीत्या इत्तिकारप्रदर्शितरीत्या च व्याष्ट्रायतामिदं सूत्रम् ।	
9.	''साधर्म्यावैधम्माभ्यां प्रत्यवस्थानं जातिः''।	15
	उदाइरय-प्रदर्भनृपूर्वकं व्याव्यायतामिदं स्वम् ।	

SECOND HALF

Examiner-MM. GOPINATH KAVIRAJ, M. A.

[Full marks-25.]

1. Translate into English any one of the following extracts:-

25

(a) किमयमनुमानमिद्धा स्कीटाभ्युपगमः प्रत्यचप्रतीतिबलवत्तया वा ? न तावदनुमानतः स्कीटस्वरूपमुपपादयितुं पार्देते, परिदृश्यमानविश्चिष्टानुपूर्वी कवर्षकलाप-कर्णनार्थप्रतीतिर्घटमानन्व। इ।

नन् व्यस्तसमसादिविक लैकसादितं वर्णानां वाचकत्वम्। नैतन्, दुर्विकल्पासे,
व्यसानां तावद् वाचकत्वं नेष्यते वर्णानाम्, समसा एव ते वाचकाः। यत्त तसामस्य
नास्ति क्रमभावितादिति, तद्सन्। क्रमभाविनामपि समसानां कार्यकारिणामनेकशो
दर्शनात्। यथा युगपद्माविनः समास्त्रयो यागण एकामुखां धारयन्तो द्वस्यन्ते, तथा
क्रमभाविनोऽपि समसा यासा एकां द्विमुत्पादयन्तो दृश्यन्ते। एकस्मिन्नपि इंग्रसे
हैयमाने न भवति ताद्दशै द्विः। स्तः समसा एव ते यासाः द्विः कारणम्।
+ एवं क्रमवर्तिनोऽपि वर्णा एवार्याभिधायनो भविष्यन्ति।

(b) न श्रोरख चैतन्यं घटादिवदभूतकार्यं लातं सासंभवात्। निन्द्रयाणाम्, करणलात् उपहतेषु विषयासाप्तिध्ये सानुस्मृतिद्धंनात्। नापि मनसः, करणान्तरान-पेलिले युगपदालीसनस्मतिप्रसङ्गात्, खयं करणाभावाश्च। परिश्रेषादात्मकार्यंतात् तेनात्मा समिधगयते, श्ररीरसमवायिनीभ्यां च हिताहितप्राप्तिपरिहारयोग्याभ्यां प्रवृक्तिनिश्चां रथकर्मणा सार्थिवत् प्रयववान् विग्रहश्चिष्ठाताऽनुनीयते प्राणादिभिद्धित। कथं श्ररीरपरिग्रहौते वायौ विक्रतकर्मदर्शनाद भस्त्राभापियतेव निमिणेन्येषकर्मणा नियतेन दाद्यन्त्रयोगीव देहस्य विद्यत्वत्रभ्यस्रीहणादिनिमक्तितात् ग्रहपतिदिव सभिनतिषययाहककर्यस्थिनिमक्तेन मनः कर्मणा ग्रहकोषिषु पेलकप्रेरक इव दारकः नयनविषयलोचनानन्तरं रसानुस्मृतिक्रमेख रसनविक्रियाद्धंनादनिक्रगवाष्टामगत-विश्ववस्थाहककर्यत्वी विश्वायते।

25

(GROUP F)

SIXTH PAPER

FIRST HALE

Examiner—PANDIT PANCHANAN TARKAVAGIS

[Full marks-50.]

भधीलिखितेषु प्रश्नेषु इयं समाधेयम् ।

- 1. पचपाददर्शनस्य धमसंग्र्यनिरासकले खीकर्तं व्ये तत्-प्रव्यवनात् पूर्वंसपि 25 शास्त्रान्तरेष तन्निरसितलात् ताह्यशास्त्रान्तरस्याद्यापि सम्प्रवेन तन्निरसनाय पचपाद- दर्शनस्य कि प्रयोजनिसमामाण्डाभपनेतं कि समाहितं नयन्तेन ?
- 2. न्याय बाक्य व्यादा इरण वाक्य चित्रताया हुण नस्य ताह शोदा इरण वाक्य प्रति- 25 पादाले (पि तथ (हुण न्तस्य) स्वतन्त्रभावेन छपादाने (कं प्रयोजन निमाना श्रद्धानपनेतुं किंस माहितं जयनो न ?
- 3. तुल्यसामग्राभोनयोत्रांनार्थयोगीद्यातदभावस्तीकारपूर्व्वकं ज्ञानप्रामाख्यमिष्कतो 25 बीडस्य समाधानं कया रीत्या खिल्डतं अयन्ति ।
 - 4. क्या रीत्या साकारविज्ञानवादी दूषिती जयन्ति ?

SECOND HALF

Examiner-MM. GURUCHARAN TARKA-DARSHANTIRTHA

[Full marks-50.]

चतुर्य प्रश्नमुत्तीर्यावशिष्टेषु चिषु प्रश्नेषु एकस्य उत्तरं कार्यम ।

- 1. विविधास कथास याहर्यो कथामवलम्बा खन्डनखन्डखायग्यारश्रसाहरू- 25 कथायाः किं लच्चम् १ प्रमाणानङ्गीकर्त्रणां कथं जयपराजय-व्यवस्था १
- 2. खन्धनयन्याध्ययनेन श्रीमतां कीहण: उपकार: सञ्चात: ? ज्ञानस्य खप्रकाणले 25 च का युक्ति: ?
- 8, "इतुतस्त्रविष्धू"त-सस्त्रासस्त्रकथा इथा" इति ग्रन्थोत्याने क स्पष्टभः? 25 किञ्चास्य व्यास्थानम् ?
 - 4. चधलनप्रवस्वयोरिकाय संस्कृतभाषया चनुवाद: काय:--

Α.

At the time when the different systems of Indian Philosophy became first known to the scholars of Europe everything that came from the East was looked upon as of extreme antiquity. There had been vague traditions of ancient Indian Philosophy even before the time of Aristotle. Alexander himself, we are told, was deeply impressed with that ides, as we may gather from his desire to communicate with the gymnosophists of India.

B.

In this way the first book of the Nyāya-Sūtras gives us indeed a fair outline of the whole of Gotama's philosophy, while the following three books enter into a more minute examination of its details. Thus the second took treats more fully of the Pramāṇas, the third and fourth of the Prameyas, the fifth treats of all that comes under the head of paralogisms Some of the questions discussed in these books show quite clearly that they must have formed the subject of lively and long-continued controversy, for though some of the objections raised may seem to us of little importance, they prove at all events the conscientiousness of the early Naiyāyikas.

(GROUP F)

SEVENTH PAPER

FIRST HALF

Examiner-MM. S. KUPPUSWAMI SASTRI, M.A.

- स्यायमते चलार्येव प्रमाणानीति मुक्तावलीमनुस्य सयुक्तिकं समर्थेयत । 20 (a) निर्विक त्यक्तकानं तस्य भतीन्द्रयतां च साध्यत । 15 भथवा
 (b) चपाधिर त्वाभासम्य खढ्पं भेदान् दूषकताबीजं च निर्देपयत ।
 3. (a) सावतरिषकं व्याख्यात— 15-
 - ''..... षथाकाकश्रीरिणाम्। ष्रव्याप्यवृत्तिः चिणको विशेषग्ण रथते॥''

षथवा

(b) पाणिनीयकारकानुशासनप्रकरणे 'चनभिष्ठित' इत्यस्मार्थ नेयायिकाि सतं सय्क्रिकं निष्काच्य दर्भेयत ।

SECOND HALF

Examiner—PANDIT PANCHANAN TARKAVAGIS

क्या रीत्या मीमांसकसमात मितावादा दूषित उदयनेन ?
 उदयनस्य प्रकृतिकारणत्ववाद-विष्डनकोम्नलं, विम्नदीक्रत्य प्रदर्श्वताम् ।
 भ्रष्टवा

25

सैर्येयहर्ष्यार्न सन्देष्ठी न प्रामास्ये विरोधत:। एकता निर्ययो येन चर्चे तन स्थिर मत:॥

वर्द्धमानरोत्या रूष्ट्रायतामियं कारिका।

3. Translate into Sanskrit :-

Still less does the Nyāya accord with the purely idealist theory of Buddhism, which regards ideas as the sole reality, and finds that there is identity between cognizer, cognition, and its object: externality thus is due to an error which causes what is really part of an internal series of cognitions to be regarded as something external. The Nyāya naturally objects strongly to a theory which deprives the external world of all reality: they insist mereover, that if all is but idea, it would be imposible to have such judgments as 'This is blue,' since the judgment would necessarily take the form 'I am blue,' which is absurd.

(GROUP F)

EIGHTH PAPER

FIRST HALF

Examiner-MM. GURUCHARAN TARKA-DARSHANTIRTHA

[Full marks-75]

प्रथमं प्रश्नमुत्तीर्याविश्रष्टानां वयसुत्तरचीयम्।

1.	प्रयसपादमने दिलपाक अद्पागुन्पत्तिविनाधप्रक्रिया कौडग्री ?	24
	सुखदु ख्यार्थकां धर्मयोग परम्पराभावकपले की दीष: ?	17
8.	यक्तिकार्ष्यालस्थानां कस्य किसन् पदार्थेऽन्तर्भावः ?	17
4.	खप्रनिद्रोऽ०सञ्चनानां कानि लच्चणानि ?	17
5	चप्रस्कारतामां कार्यासाम्बद्धामा व्यात्मा कीरती १	17

- (क) सामधिक: शब्दादर्घप्रत्यय:।
- (ख) तहचनादाबायस्य प्रामास्यम्।
- (ग) कार्यविरीध कर्म।
- (घ न द्रव्याणां कर्मा।
- (क) संयोगानां द्रव्यस।

SECOND HALF

Examiner-Pandit Vidhusekhar Sastri

[Full marks-25]

Translate any one of the following passages:-

- 25
- (त) सर्वेऽयेते चलारो द्रवलं च पृथियो कचिद् चवयवदपादित: कचिच पाकादुग्रदाने। केचिदाययमायात् केचित्पाकादिमध्यन्ति। न च पृथिवीपरमाणु-गतानामेवासुत्पादिवनाययोर्मानाभाव इति वाच्यम्। नौलमधुरसुरभिकठिनादिवसूनां भक्षानि विपरोतदपादय उपलभ्यत्ते। न च भक्षारम्भकपरमाणुषु ताह्यदपादिकमन्तरेच भक्षानि ते भवितुमईन्ति। कारणगुणामां कार्यगुणारम्भकलादिति भक्षारम्भकपरमाणुभि-साह्यदपादिमिक्कभवितव्यम्। त एव च परमाणवसाह्यवस्त्रनीऽप्यारम्भकाः। ते च यदि भक्षारम्भकालात् प्रागिष भक्षगतद्वपादिजातीयद्वपादिमन्तसदा ताह्यस्त्रेच्यं वस्तुत्वपि ताह्यदपादयो भवेयुः। इदानीं वा यति ते नौलादिमन्तसदा तह्यस्त्रप्य ताह्यदपाद्यप्रस्तरादयो भवेयुः। इदानीं वा यति ते नौलादिमन्तसदा तह्यस्त्रप्य ताह्यदपाद्यप्रस्तराद्यो भवेयुः। इदानीं वा यति ते नौलादिमन्तसदा तहस्त्रस्य प ताह्यदपाद्यप्रस्तराद्यो भवेयुः। चत्रसाह्यवस्त्रनस्त्रेजः-संयोगि स्ति तदारम्भकप्यसास्त्रच्यि तेजःसंयोगिन पूर्वेदपादिनाग्रेन तदा दपान्तरोत्पादोऽद्वीकर्तस्य इति सिद्वं नित्यपृथिवी-गतानां तेवामनित्यस्त्रम् इत्येषा दिक्।
- (b) भय पाकाद्र्पाद्युत्पत्ति: क, क वावयवद्यादित इति चैत्। भन्न विश्वानानुयायिन:। सत्यवयविनि पाकेन द्यनायी न सभवित। समवेतनायं 86—81

प्रत्यात्रयनाश्च हित्रया विना कारणं कार्योत्पत्तरसभावात्। स्तः पावेन द्राणुकायन्यावर्यावपर्यन्तमवयवनाश्चन्नमेण नग्धितः। नष्टे च तिस्तन् वैवलेषु प्ररमाण्षु पाकतः
स्वामनाश्चरपान्तरोत्पत्तौ सन्यदोते। ततो द्राणुका।दक्तमेण कार्यद्रव्याणुक्यन्ते।
ततसेषु कारणगुणक्रमेण द्रपान्तरोत्पादः। दृष्यं च पाकात्परमाणावेव पूर्वेदपनाशद्रप्यनाश्चरव्यान्तरोत्पादौ न युक्तौ। गौरवान्त्यानाभावाद्यः। पाकेन द्राणुकायन्तावयविपर्यन्तं
द्रव्यनाश्चरव्यान्तरोत्पादौ न युक्तौ। गौरवान्त्यानाभावाद्यः। न चात्रयनाशस्य समवेतनाश्चरेत्रया विना पूर्वेदव्यनाशं पूर्वेद्वपनाशो न सभवतीति वाच्यम्। विनाप्यात्रयनाशं
परमाणुद्यादिनाशिनाक्तकार्यकारयभावाभावात्। स्वि च पूर्वेद्वव्यनाशाङ्गीकारि स्थामचटादौ क्रतानां रेखोपरिखादौनां पाकानन्तरमनुपलस्थापितः। न चावयविनावष्टस्येद्ववयवेषु पाको न सभवतीति वाच्यम्। भवयविनः सिष्ट्यद्वतया सत्येवावयविनि वङ्गरेत्सःप्रवेशसभवात्।

(GROUP G)

FIFTH PAPER

FIRST HALF

Examiner-MM. GURUCHARAN TARKA-DARSHANTIRTHA

[Fuil marks-75]

पचसु प्रश्नेषु वयाणास्तर कार्यसः।

- 1. विविधदु:वात्यन्तिवृत्तिरत्यनपुरुषायं द्रति सूत्रे विविधपदस्यात्यन्तपद्योस किं 25 प्रयोजनम् ?—के च तद्याः ?
- 2. ईश्वरासिक्के रिति स्वस्य सं।पष्टकाव्यास्था कीह्यौ ? ईश्वराभावादिस्य नुक्का 25 ईश्वरासिक्के रिति कथनस्य कि प्रयोजनम् ?
- 8. प्रतिविषयाध्यवमायो दृष्टमिति यन्यस्य की हृशी व्याख्या ? तत्त्वकी सुदी स्नमाति 25 पुरुषका के का यक्ति: ?
- 4. योगस्त्रोक्ताभिनिवेश: कौड्य: ? किंप्रमाणकय स: ? ''तत्र निरतिष्यं 25 सार्क्षक्राबीजम्'' इति सूतस्य भाष्यक्ष्णोरेकतरसम्बता व्याख्या सीड्यी ?
 - 5. चधननस्वाचां व्याख्याः कार्याः :-- 25
 - (क) प्रव्यस परचित्रज्ञानस्।
 - (ख) चनुभ्तविषयासंप्रभीष: स्र्ति:।
 - (ग) नावस्थाती देइधर्यातातृ तस्था:।
 - (च) संचातपरार्थलात् पुरुषस्य।
 - सनाधिसुनुतिमीचेनु ब्रह्मद्वता।

SECOND HALF

Examin er-Mr. Muralidhar Banerjee, M.A.

[Full marks-25]

Translate into English the following :--

(a) नन्वनेकात्मकं ब्रह्म, यथा व्रचोऽनेकशाखः एवमनेकश्वत्मण्डित्युक्तं ब्रह्म, ज्यत एकतं नानातं चंभयमिप सत्यमेव, यथा वृच्च इत्थेकतं शाखा इति नानात्मन, यथा च ससुद्रात्मनेकातं फेनतरङ्गायात्मना नानात्मन, यथा च सद्रात्मना एकतं घटशरावायात्मना नानात्मन, तव एकतांश्चन क्षानाम्योच्चव्यवद्यारः सित्यांत, नानात्वांश्चन तु कर्याकाष्ट्रात्रयौ लोकिक-वैदिकव्यवद्यारी सित्यत इति, एयं च सदादिहष्टान्ना चनुद्रपा भविष्यनीति।

नैवं साम्मृत्तिकेव सर्वामित प्रक्रितमावस दृष्टान्ते सर्ववावधारणात् वाचारणयद्देन च विकारजातस्यानृतवाभिधानात्, दार्ष्टान्तिकेऽपि ''ऐतदात्मामिदं सर्व्यम्"
"तस्यस्यम्" इति च परमकारणस्येवैकस्य सर्ववावधारणात्, "स प्रात्मा, तत्त्वमिस् त्रितकेतो" इति च यारीरस्य ब्रह्मभावोपदेशात्। स्वयम् प्रसिद्धं स्रोतच्छरीरस्य ब्रह्मात्मतसुपदिग्राते न यवान्तरप्रसाध्यम् प्रतसेदं शास्त्रीयं ब्रह्मात्मतं प्रभुपगम्यमानं स्वाभाविकस्य शारोरात्मतस्य वाधकं सन्यदाते रज्वादिवृद्धय इव सर्पादिवृद्धीनाम्।

(b) दिधचटक्चकादार्दि। अ: प्रतिनियतानि कारणानि चीरस्तिकासुवर्णादीनि उपादीयमानानि लोके दृश्यने, न हि दश्यिक्षीः स्तिकोपादीयते, न घटादार्थं अ: चीरम्, तदस्रकार्थवादि नीपपदाते। भविष्टं हि प्रागृत्पत्तेः सर्व्यत सर्वसासचे कचात् चौरादेव दश्युत्पद्यते न स्तिकायाः, स्तिकाया एव च घट उत्पद्यते न चौरात्? भवाविष्टेऽपि प्रागसचे चौरे एव दश्वः किषदित्ययी न स्तिकायाम्, स्तिकायामेव च घटस्य किषदितिशयो न चौरे इत्युच्यते। तिर्धं भितश्यवच्यात् प्रागवस्थायाः भस्रकार्थ्य-वाद्यानिः सत्कार्यवादिश्विष्य। श्रक्तिय कार्य्यस्य कार्य्यन्यमार्था कस्यामाना नाम्याऽसती वा कार्य्य नियच्छेत् भस्रचाविश्वेषादम्यत्यविश्वेषाद्य। तक्षात् कार्यस्य भारामुता व्यक्तिः श्रक्तियामभूतं कार्यम्। भपि च कार्य्यकार्ययोद्दे व्यगुचादीनां चाव-स्विववे द्वद्याभावात तादाकामभ्यपगन्तव्यम।

(GROUP G)

SIXTH PAPER

FIRST HALF

Examiner-MM. SITARAM SASTRI

[Full marks-75]

Answer any three questions from each of the groups (a) and (b)

(a) (i) "इन्द्रियांश्रेसिक्किवीत्पत्तं ज्ञानसम्बपदिकानमभिषारि स्ववसायात्मनं 12क्के प्रमुखनं ।

	गार्थका-प्रदर्भनपुरसारं सूत्रमिदं व्याख्यायताम्। अनेन कस्य लचणसुचाते ?	
	वेदींषं भवति न वा ? न चेददीषं तत्कीह्यम् ? सूवतय कयं तन्नाभ: ? यथाभाष्यवृत्ति वैकाल्यासिद्धाः प्रमाणानामप्रामाण्यमाग्रदाः सद्देतुनं	191
	वैकाखासि विसम्भवसावत्यो ह त्तानुरोधेन निरुद्धताम् ।	123
	बुर्स नित्यतानित्यत्वे परपचप्रदर्भन१रस्यरं सप्रमाणं निर्णीरीताम् ।	121
	षांतहितवी निष्यनां यथाभाष्यं नामतः खढ्पती द्वष्टान्ततस् ।	12 1
	प्रमुपनिश्चसमं जातिविश्रेषं खचियता भीतर तहुष्टान्तस्थलं प्रदर्श्वताम्।	121
(vi)	सूत्रमुद्धित्य भाष्यहत्त्यनुरोधेन निदोषं वादनचण विस्पष्टं विलिख्यताम् ।	121
(b)	(i) तमस: सप्तद्रव्यातिरिक्तलमाश्रद्धाः सयुक्ति निराक्तव्य मतसेद-प्रदर्शन-	12 1
	इपं निर्चींधताम्।	-
(ii)	चाकाश्रसाधकानुमानाक।रं संप्रदर्धे यथाभाष्यं सहतुकमाकाश्रगुणा	12 1
निषयनाम्।		_
(iii)	नित्यपदार्थास्तीकार-वाचोयुक्तिं संप्रदर्श्यं युक्त्या तन्निरासः क्रियताम् ।	$12\frac{1}{2}$
(iv)	बुद्धे रनुमेयलमतं सनामोक्केखं सम्यक् प्रतिपाद्य युक्त्या तक्तिरास:	$12\frac{1}{2}$
प्रदर्श्वताम् ।		
	पाकजोत्पत्तिविधानं यथाभाष्यं सप्रक्रियं विलिख्यताम् ।	$12\frac{1}{2}$
	परत्वापरत्वयोनां मनान् नामत उद्गिष्य भपेचा बुद्धिविना शस्य द्रव्यसंयोग-	$12\frac{1}{2}$
विनामस्य च	व्याज्ञकत्वं सप्रक्रियं संप्रदर्श्यंताम् ।	
	SECOND HALF	

Examiner—Pandit Gopinath Kaviraj

[Full marks-25]

124

- 1. Translate into Sanskrit any two of the following extracts:-
- (a) Buddhism distinguished itself from most other systems by applying the doctrine of causality and non-substantiality to the mind as well as to the body. This is a very important point, inasmuch as it is a doctrine which distinguishes Buddhism from practically every other religion. In most other systems of thought, though the causal relationship is in some way recognised, the higher powers, especially the Supreme Being, are considered superior to this law, and are able, as shown by their miracles, temporarily to abrogate it. Buddhism, though accepting the possibility of miracles, seeks to correlate them with causality.
- (b) Self-awareness is the outcome of thought and feeling, and its extent depends on the idea one has of one's personality, and on the degree of warmth put into it. This idea of one's personality in one's consciousness, is the objectification of one's self, though it constantly changes in the course of evolution, and will continue changing till perfection is achieved, and Godconsciousness attained. It is the form of G d-con-ciousness which permanently resides at the place called the Siddha Silā, the Abode of Perfection.
- (c) Do not live in the future nor in the dead things of yesterday, but live rather in the immediate now, with the understanding that you are a product of the past, and that by your actions of to-day you can control tomorrow and so become the master of time, the master of evolution, and

hence the master of perfection. Then you will live with greater intensity, then every second will count and every moment will be of value. Put aside the past with all its glories, beautiful and terrible, all its traditions, wide and yet so conditioned, all its moralities that strargle life, and look into your own heart and mind to discover what lies before you in the future.

(Group G)

SEVENTH PAPER

FIRST HALF

Examiner-MM. Kuppuswami Sastri, M.A.

[Full marks-50]

- 1. In an essay, maintain any one of the following theses, referring to 20 relevant portions of the Gitā:—
 - (1) "पात्मज्ञानवतः संन्यास एवाधिकारी न कर्मणि।"
- (2) The greatest achievement of the Gitā consists in its allembracing exteric synthesis.
- (3) Advaita, in theory and practice, is the central theme of the Gitā.
- 2. (a) Make clear the meaning of the following extracts according to Sankara, drawing attention to the defects and merits in such other interpretations as may be known to you:—
 - (1) कमैखकर्म यः प्रश्चेदकर्मण च कर्म यः। स बुडिमान्यनुष्येषु स युक्तः क्रत्यकर्मेक्षत्॥
 - (2) त्रेयो हि ज्ञानसभ्यासाङ्जानाद्व्यानं विशिष्यते। ध्यानात्कर्मप्रसत्यागस्यामाच्छान्तिरनन्तरम्॥

Or.

(b) Refute. according to Sankara, the following objection:-

"नतु सर्वेचितेष्वे क एव ई.यरः, नाम्यसद्यातिरिक्तो भोक्ता विद्यते चेत्, नन्धनीष-तद्य तुत्रास्त्रानचैक्यप्रसङ्गः, प्रत्यचप्रमाणविरोधय।"

8. (a) Elucidate, according to the Vedantasars, the meaning of the 15 text "বাৰ্যনিষ্".

Or.

(b) Make clear the nature and function of पख्याकारहाँच in the Advaitic scheme of self-realisation. In this connection, point out how the conflicting texts "समसेवानुद्रह्मम्" and 'स्थानसा न समुते' may be reconciled.

SECOND HALF

Examiner-Mr. Kokileswar Bhattacharyya, M.A.

[Full marks-50]

1. State and explain what you know of the following :-

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- (a) The theory of অভ্যাহাত and অত্যাহ from the Vedāntic standpoint.
- (b) The theory of final emancipation (सृत्ति) as propounded in the Sankara-school and its distinction from the Sānkhya idea ef सृत्ति.

Or.

What is the conception of the Vedantic Prana and its two-fold manifestation? The Prana is o ten identified with the Ajnana or Avidya; does this indentification prove its exclusively subjective character?

- 2. Elaborate the idea contained in any two of the following extracts:—
- (a) न च भविद्यावस्त्रे तदपगसी च वस्तुन: कथित् विशेषोऽस्ति। न तु भक्तिबिकाले तदपगमकाले च वस्तुन: कथिक्षिष: स्थात्।
- (b एकत्वऽपि स्वरूप-बाह्यद्वपापेचया भनेकशस्द्रप्रत्ययद्शैनात्.....यथा एकापि सतौ देवा स्थानान्यत्वेन निविश्वभाना एकदशशतसहस्रादिशस्द्रप्रत्ययभेदमनु-भवति।
- (c) ६ हो । लभानियमोऽपि प्रत्ययविषययोक्पायोपियभाव हेतुको नामेद हेतुक: इत्यस्यपगन्तव्यम्।
 - 3. Translate the following extract into simple Sanskrit:-

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We reply that the nature of the soul cannot be attributed to momentarily fleeting ideation, inasmuch as cognition, desire, volition, retention, and remniscence must be assigned to one substratum or repository, and inasmuch as these states being successive, they cannot have a fluxional ideation for their substratum. But had not cognition and the rest a single substratum, it would fo low that in regard to an object experienced there could be no activity, such activity being determined by all inference as to its utility as a means to a desired end, and this inference again being based on the homogeneity of the present to pist objects as its middle term. For, what one being experiences, another cannot remember. For this and many other reasons the view that the soul is a momentarily fleeting ideation cannot be accepted.

(Group G)

EIGHTH PAPER

FIRST HALF

Examiner-MM. Ananta Krishna Sastri

[Full marks-75]

- 1. अध्ययनसाध्यापनविधिवयुक्तलं प्रामाकास परती वाद्यलं च कर्ष न युक्तते?
- 2. वजावलाधिकरवसुदाइरवचर्य परीचवपूर्वेतं संग्रस्तताम्।

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- 3. नामध्यानां कतिभिनिमत्ते: सिर्ति: ? कानि तानि ? "वैश्वदेवेन यजित" 15 क्यत न्यायप्रकाशरीत्या कर्य नामतन्यवस्था ?
 - 4. अधीलिखितानि वाकानि यथाभाष्यं व्याख्यायनामः :---

15

- (1) भविज्ञातं विज्ञानतां विज्ञातमविज्ञानताम्।
- (2) च्हतं पिवनी सुक्ततस्य खोके
 गृहां प्रविष्टी परिने परार्थे ।
 कायातपी अञ्चिवदो बदन्ति
 पश्चाग्रयो ये च चिणाचिकेता: ॥
- (3) यिखान् दौ: पृथिवो चान्तरिचमीतं मनः सङ्ग्राण्येस से :। तसेवैकं जानच चात्सानमन्या वाचो विसञ्चत ।
 - (4) द्वासुपर्या सयुत्रा सखाया समानं इचं परिषखनाथै। तयोरण: पिपलं खादच्यनत्रवरोऽभिवाकशीति।
 - (5) यः पुनरेतं विमावेगोमिलेतिनैवाचरेण परं पुरुषमभिध्यायोत ।
 - माळ्क्योपनिषत्पतिपाद्यमधे संग्रस्य प्रतिपादयत ।

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SECOND HALF

Examiner-MR. BANAMALI VEDANTATIRTHA

[Full marks-25]

Translate any one of the following passages into English:-

25

(a) कर्तासि कश्चिमात: स चक:

स सर्वेगः स खवशः स नित्यः।

द्रमा: कुहैवाकविडम्बना: स्यु-

क्षेषां न येषामनुशासकस्वम्॥

कुत्सिता देवाका पायद्दिशेवा: कुदेवाका: कदायद्दा दृत्यं:। यत् ताबदुक्तं परे:—" छवींपवैततर्वादिकां सवे बुद्धिमत्क कृतं कार्यंत्वात्। यद् यत् कार्यं तत् सवे बुद्धिमत्क कृतं व्याप्ताः। यद् यत् कार्यं तत् सवे बुद्धिमत्क कृतं यथा घटः। तथा चेदं तकात्तवा। व्यतिरेके व्योमादि" दित । तद्यक्रम् व्याप्ते रयद्यात्। साधनं दि सवेष व्याप्ते प्रमाणेन सिद्धायां साध्यं समयेदिति सवेषादिसंवादः। स वायं जगाना सजन् समरीराऽभरीरो वा स्थात्, सभरीरोऽपि किमक्षदादिवत् इस्वयरीर्वि यष्ट छत पिमाचादिक्त् चह्यायरीर्विष्ठिष्टः ! प्रमाणवे प्रव्यववाधसमन्तरेवापि च जायमाने द्वव्यतकपुरन्दरधनुरक्षादी कार्यंत्वस्य दर्वनात् प्रमियत्वादिवत् साधारवानेकान्तिको हेतुः।

दैन्दर एक:। वहनां हि विश्वविधादमञ्जोकारे परस्परविमति-संभावनाया चनिवार्यस्वात्। इदमपि न वृक्षम्। चनिक्षकोटिकाञ्चतन्त्रियायतेऽपि वक्षसुद्धुः जिन्न- शिक्षकिकाति प्रासादादीनां नैकसरचानिर्वित्तित्वेऽपि मधुक्कवादीनां चैकदपताया छपलभात्। भयेतेषु एक एव देखरः कर्ता इति ब्रूषे। एवं चेद् भवतो भवानीपतिं प्रति वासना तर्षि कुविन्दकुष्मकारादितिरक्कारेष घटपटादीनामपि कर्ता स एव किं न कल्पते। भय तिषां प्रत्यचिद्धं कर्त्तृ वं कथमपन्न शकान्, तर्षि कीटकादिभिः किं तव विराह्म, यत् त्वामसङ्गताङ्गप्रयाससाध्यं कर्त्तृत्वनिक हैलयेवापलप्यत्र तकाद्द वैमत्यभयात् सहित्रतेक तकल्पना भीजनादित्ययभयात् क्षपणस्य भल्यनवस्वभपुष-कल्पतिदिपरित्यजनीन स्त्यारक्षानीसेवनित्तव।

(b) तस्य सर्वेञ्चलमि भ्रमंजसम्। ननु तस्य सार्वञ्च माणिन ग्रहीतम्। न तावत् प्रत्यचिष तस्य इन्द्रियार्थसंनिकार्धोत्पद्मतया भ्रतीन्द्रियद्मधाः सामर्थात् नापि भनुमानेन तस्य लिंगग्रहण-लिङ्गलिङ्किस्वस्थारणपूर्वकलात्। न भ तस्य सर्वञ्चलेऽनुमेथे किंचिद्व्यभिचारिलङ्गम् पथ्यामः तस्य भव्यन्तविप्रक्षष्टलेन तत् प्रतिवङ्गलिंगसंवस्थादणाभावात्। भय तस्य सर्वञ्चलं विना जगद्वेचित्रते तत् प्रतिवङ्गलिंगसंवस्थादणाभावात्। भय तस्य सर्वञ्चलं विना जगद्वेचित्रते तत् सर्वञ्चलम्बाद्रियामयित इति चत्, न। भविनाभावाभावात्। न इन्जाद्वेचित्रते तत् सर्वञ्चलं विनान्त्रया नोपपन्ना। हिवधं इन्जात् स्थावर-जङ्गमिदात्। तत्र जंगमानां वैचित्रं स्वोपान्त्रयाग्रभकर्मपरिपाकवश्चित्रे, स्थावराणां तु सचितनानामिथमिव गितः भचितनानां तु तद्पभोगयोग्यतासाधमलेन भनादिकालसिङ्गमिव वैचित्राम् इति। नापि भागमस्त्रत्-साधकः। स इन्जित्वज्ञति स्थावन स्वात्। तत्वज्ञत एव चित् तस्य सर्वञ्चतं साध्यति, तदा तत्य महत्त्वलिः स्वयमिव स्वगुणोत्कीर्यान्यः महतामनिधकार-लात्। भन्यच तत्य शास्त्रकर्त्वनिव न युज्यते। शास्त्र इन्जामनिधकार-लात्। भन्यच तत्य शास्त्रकर्त्वनिव न युज्यते। शास्त्र इन्जासनम्। ते भत्ताल्वादिन्यापार्णन्याः स च प्रदीर एव संभवी। ईन्वरस न स्वारीर।

किंच प्रेचावतां प्रवृत्तिः खार्थकवयाभ्यां व्याप्ता। ततयायं जगत्सग व्याप्रियते खार्थात् कावष्याद् वा। न तावत् खार्थात् तस्य कृतक्रत्वात्। न च कावष्यात्। परदु:खप्रद्वायेच्छा हि कावष्यम्। ततः प्राक् सर्गात् जौवागामिन्द्रिय-वरौरिवषयानुत्पत्तौ दु:खाभावेन कस्य प्रद्वायेच्छा कावष्यम्।

(GROUP H)

FIFTH PAPER

FIRST HALF

Examiner—Pandit Hargovind Das Seth

[Full marks-75]

- 1. अधस्तनयोः प्रवन्धयोरन्यतरस्य संस्कृतच्छायां कुरु; यानि 25 चात्रार्षप्राकृतभाषागतवैशिष्ट्ययुक्तानि पदानि, महाराष्ट्रीप्राकृते तानि कीदशानि भवन्तीति प्रदर्शयः—
- (a) तपु णं गंगदत्ता भारिया जायणिहुया यावि होत्था; जाया जाया दारया विणिधायमावज्जंति । तपु णं तीसे गंगदत्तापु सत्थवाहीपु

अन्नया कयाइ पुब्वरत्तावरत्तकालसमयंसि कुडुं बजागरियं जागरमाणीए अयं अज्झित्थए संकप्ये समुप्पण्णे—एवं खलु अहं सागरदत्तेणं सत्थवाहेणं सिद्धं बहुइं वासाइं उरालाइं मनुस्तगाइं भोगभोगाइं भुंजमाणी विहरामि; णो चेव णं अहं दारगं वा दारियं वा पयामि। तं धण्णाओ णं ताओ अम्मयाओ सपुनाओ कयत्थाओ कयल्क्ष्यणाओ; सुल्खे णं तासिं अम्मयाणं माणुस्तए जम्मजीवियफले, जासिं मन्ने नियगकुच्छिसंभूयाइं थणहुद्धलुद्ध-गाइं महुरसमुह्णावगाइं मम्मणपयंपयाइं थणमूल्गकक्ष्यदेसभागं अति-सरमाणगाइं मुद्धगाइं। पुणो य कोमलक्ष्मलोवमेहि य हत्थेहिं गिण्हेजण उच्छेगं निवेसियाइं दिंति समुह्णावए सुमहुरे पुणोपुणो मंजुरूप्य-भणिते। अहं णं अधण्णा अक्षयपुण्णा, एत्तो एगमवि न पत्ता।

- (ं) तए णं से णंदिसेणे कुमारे रज्जं य जाव अंतेडरे य मुच्छिते इच्छिति सिरिदामं रायं जिवियातो ववरोवित्तए; सयमेव रजिसिरं कारेमाणे पालेमाणे विहरित्तए। तए णं से णंदिसेणे कुमारे सिरिदामस्स रक्को बहूणि अंतराणि य छिहाणि य विवराणि य पिडजागरमाणे विहरित। तते णं से णंदिसेणे कुमारे सिरिदामस्स रक्को अंतरं अछभमाणे अक्कया कयाहं चित्तं अछंकारियं सहावेति, सहावेत्ता एवं वयासी—तुम्हे णं देवाणुप्पिया सिरिदामस्स रक्को सब्वठाणेसु य सब्वभूमोसु य अंतेडरे य दिण्णवियारे सिरीदामस्स रक्को सब्वठाणेसु य सब्वभूमोसु य अंतेडरे य दिण्णवियारे सिरीदामस्स रक्को स्ववठाणेसु य सब्वभूमोसु य अंतेडरे य दिण्णवियारे सिरीदामस्स रक्को अभिक्त्वणं अभिक्त्वणं अर्छकारियं कम्मं करेमाणे विहरित । तक्णं तुमं देवाणुप्पिया सिरीदामस्म रक्को अलंकारियं कम्मं करेमाणे गीवाए खुरं निवेसेहि; तो णं अहं तुम्हं अद्धरज्जयं करेस्सामि; तुम्हं अम्हेहिं सिद्धं उरालाइं भोगभोगाइं भुंजमाणे विहरिस्सिस। तते णं से चित्ते अछंकारिए नंदिसेणस्स कुमारस्स वयणं एयमट्ठं पिडसुणेति।
 - 🛂 निम्नोद्धृतयोः प्रवन्धयोरेकतरस्य विशदतया ब्याख्यां विधेहि :—
- (त) परिग्गहस्सेव य अट्ठाए करें ति पाणाण वहकरणं अलिय-नियडिसाइसंपओगे परद्व्वअभिजा सपरदारअभिगमणासेवणाम् आयास-विस्रणं कल्रहभंडचेराणि य अवमाणणविमाणणाओ इच्छामिरुच्छप्पिवास-सत्वितिस्या। तण्हगेहिलोभघत्था अत्ताणा अणिग्गहिया करें ति कोहमान-मायालोभे अकित्तणिज्जे। परिग्गहे चेव होंति नियमा सङ्घा दंडा य गारवा य सकाया सन्ना य कामगुणअण्हगा य इंदियलेसाओ। सयणसंपओगा सवित्ताचित्तमीसगाइं द्व्वाइं अणंतकाइं इच्छंति परिघेतुं। सदेवमणुया-सरिम्म छोए छोभपरिग्गहों जिणवरेडिं भणिओ नत्थि प्रिसो पासो पडिवंधो

अल्यि सम्बजीवाणं सम्बज्ञोए। परकोगिम्म य नट्ठा तमं पविट्ठा महया-मोहमोहियमती तिमिसंधकारे तसथावरसुहुमबादरेसु पज्जत्तमपज्जत्तगा एवं जाव परियद्टंति दोहमद्धं जोवा छोभवससंनिविट्ठा।

- (b) अह केरिसए पुणाइं आराहए वयमिणं १ जे से उविहमत्तपाण-संगहणदाणकुसले अश्वंतबालदुब्वलगिलाणबुद्वसमके पवित्तआयरियउ-वज्ञाए सेहे साहम्मिए तविस्मकुलगणसंघचेह्यदरे य निजारदरी वेयावश्वं अणिस्सियं दसविहं बहुविहं करेति। न य अचियत्तस्स गिहं पविसद्द। न य अचियत्तस्स भत्तपाणं गेण्हद्द। न य अचियत्तस्स सेवद्द पीढफलग-सेज्ञासंयारगवत्थपायकंबल्डंडगरयहरणनिसेज्जचोलपट्टयमुहपोत्तियपायपुं छणा-इभायणभंडोबिहेडवगरणं। न य परिवायं परस्स जंपति। ण यावि दोसे परस्स गेण्हद्द। परववएसेगवि न किंचि गेण्हद्द। न य विपरिणामेइ किंचि जणं। न यावि णासेइ दिश्वसुकयं। दाजण य न होइ पच्छाताविए। संभागसीले संगहोवग्गहकुसले। से तारिसए आराहए वयमिणं।
- 3. शब्दानामेतेषां संस्कृतप्रतिशब्दनिर्देशपूर्वकं पारिभाषिकमर्थः ३५ किस :--

इसिवाइय, उत्तरकुरु, सयंभूरमग, पिछओवम, चउत्थर्भात्तय, मण-पज्जवनाणी, रुयगवर, वज्जरिसहनाराय।

SECOND HALF

Exammer-Dr. Benimadhab Barua, M.A., D.Lit.

[Full marks-25]

- 1. Translate into Sanskrit or Prakrit any two of the following 25 passages:—
- (a) Great men are few in any case, and we are so much too apt to look for them in the wrong place that we are in danger of missing some of those that do exist. Now not only did I find a great man, but I discovered a great secret too. I discovered now to spend a holid sy.
- (b) Do not imagine that this question is in the Three Vedas. You imagine that you know all that I know, and so you act like the jujube tree. You don't know that I know a great deal which is unknown to you. Leave me now; I give you seven days—think over this question for so long.
 - (c) Where women rule, the seeing lose their sight,
 The strong go week, the mighty have no might.
 Where women rule, virtue and wisdom fly:
 Reckless the prisoners in durance lie.
 As fire burns fuel, for each careless wight
 They burn fame, glory, learning, wit and might.

(GROUP H)

SIXTH PAPER

FIRST HALF

Examiner—Pandit Lakshminarayan Sastri

[Full marks-75]

राजा । त्वत्सुनीतिपादपस्य पुष्पमुद्भित्रम् । विदषकः । फलं वि अष्ठरेण दक्खिस्ससि ।

8

(Mālavikāgnimitram)

It appears that the Vilushaka of Mālavikāgnimitram is a cleveman while that of Abhijnānasakuntalam is a fool. Compare the two and support your answer with quotations from their speeches. Or,

Write in Prākrit, Bhanumati's सिविष्यहंसणं as in Venisomhāra.

Give in Prakrit the सुरङ्ग हाना in Karpuramanjari.

2. Translate any six of the following extracts into Sanskrit :-

15

- (a) एगं लजावगदमुहिं परिस्सिजिअ सअं तादकस्सवेण एष्वं अहिणन्दिदं दिष्टिआ धूमाउलिददिष्टिगो वि जजमाणस्स पावए एष्वं आहुइ पिड्दा। वच्छे सुपिस्परिदिणा विअ विज्ञा असोअणिजा संयुत्ता। अज एष्व इपिपिड्रिशिक्षः तुमं भत्तणो सआसं विसञ्जेमि।
- (५) दिद्दिआ चिरस्प कालस्प उब्बसीसहाओ णन्दनवणप्यमुहेसु देवदारण्णेसु विहरिअ पिइगिउत्तो पिअवअस्तो । दाणि ससक्कारोवआरेहिं पिकदीहिं अगुरज्जन्तो रज्जं करेदि । असंताणत्तणं विज्ञिअ ण किंवि से होणं । अज्ञ तिहिबिसेसोत्ति अअवदीगं गङ्गाजजँणाण, सङ्गमे देवीहिं सह किदाहिसेओ संपदं उवआरिअं पिबहो ।
- (c) गोदमचापलादो दोलापरिभद्राए सरुजो मह चलणो। तुर्म दाव गदुअ तवगीआसोअस्प दोइलं गिवद्देहि। जदि सो पञ्चरत्तव्भन्तरे कुसुमं दंसेदि तदो अहं अहिकःसप्रइत्तअं पसादं दाइस्सं। जाव णिओअभूमिं पुढमं गदा होमि ताव अणुपदं मम चल्णाककारहत्थाए वडकाविकाए आअन्तस्यं।
- (त) कहं अविरए विलोलघुण्णन्तविज्जुलदाविकासमण्डदेहिं मत्तमोर-कण्डसामलेहिं ओत्थरीअदि णभोक्षणं जलहरेहिं। णाथ को दागिं एसो संभमुक्सित्तकरण्भभिदोत्तरिआञ्चको दूरदो जेव्य महुरसिगिद्धवश्रमपहिसिद्ध-जुद्धकावारी प्दाणं कुमाराणां अन्दरे विमाणवरं ओदरावेदि।……

- (e) उद्दासमित्रमञ्ज्विगित्रसम्बच्चिम्बअपउत्तिणिस्सन्द्चन्द्मणिहारधारिणी पउरकप्पूरमिवसेसिसिस्चन्दगरसच्छडासारणिअरदन्तुरिदवारुकदळीपत्तसअणा पादसंवाहणादिवावारतुवरन्तसहअरीसस्थिवरहदोवणीदकमिर्णोदरुजरुहतास्र-जन्ता उस्मिद्दा एवव रअणीओ गमेइ।
- (/) विच्छिण्णविसंदुलसिङ्खलाकलावअं उब्वहन्तं दन्तन्तरपरि-गाहिदं परिव्याजअं उब्वहन्तं तं पेक्लिअ कण्णकरएण मए णहि णहि अज्ञआए अग्णपिण्डउद्देण दासेण वामचल्णेग जुदलेखअं उग्वुसिअ तुरिदं आपणादो लोइदण्डं गेणिहअ आआरिदो सो दुदृहत्थी।
- (9) सावगा किं अणेग असुगिद्वेग सुदेन। ...ण रहस्सं किंडु अदिणि संसं। सावगा ण रहस्सं एदं तहिप ण कहिस्सं। का गइ। सुणाडु सावगो। अस्थि दाव अहं मन्दभग्गो पुढमं पाडिल्डिने अहिणिव-समाणो छक्खसेण मित्तत्त्रणं उवगदे। तिहं अवसले एक्खसेण गृहं विसक्षणआपओअं उप्पादिअ घादिदे पव्वदीसले।
- (५) ही ही भोः । कोसम्बोरज्ञलाहेगावि ण तादिसो पिअवअस्सस्स परितोसो आसी जादिसो मम मआपादो गिअवअगं सुगिअ हुविस्सदि त्ति तक्कोम । ता गदुअ पिअवअस्मस्य गिवेदहस्सं । कधम् । एसो पिअवअस्पो जधा हमं जेव्व दिमं अवलोअन्तो चिट्टदि तह तक्कोम मं जेव्व परिवालेदि । ता जाव णं उवस्पप्पामि ।
 - (i) कीए वि संघडइ कस्म वि पेम्मगण्डी एमे<u>न्व</u> तत्थ ण हु कारणमिंथ रूअं। चक्रत्तणं उण महिजादि जं तिहें पि ता दिजाए पिस्मण्डोहमुहेस मुहा॥
 - (j) हदमाणुशमंशभालए कुम्भशहश्शवशाहिं शक्किए। अणिशं अ पिवामि शोणिअं विष्यशक्षितं शमले हवीअहु॥...

अह कहिं क्खु गदे में लुहिलिपए हुवीअदि । होदु । शहावहङ्शं दाव । अले लुहिलिपआ इदो एहि ।

3. Give English renderings of the following extracts, adding notes where necessary and referring to the dramas from which they are quote!:—

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(a) तस्स क्ल एदं निव्भिष्ण्य विउरवश्यावीशस्स शवधीरिद-पिदामहहिदोवदेसङ्करस्स सउणिप्पोच्छाहणादिविरूढमूळस्स जहुगेहजुद्विस-

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साहिणो संभूदचिरआलसंवद्धवेराखवाछस्स पञ्चालीकेसग्गहणकुसुमस्स फलं परिणमदि ।

- (b) जघा जघा वश्यदि अव्भक्षण्डे तथा तथा तिम्मदि पुट्ठिचम्मे । जधा जधा लग्गदि शीदवादे तथा तथा वेवदि में हलके ॥ वंशं वाए शक्तच्छिहं शुशहं वीणं वाए शक्ततिन्तं णदन्तिं । गीअं गाए गहहङ्शाणुनूअं के में गाणे तुम्बुन् णाछदे वा ॥
- (r) ही हीणामहे बुद्धिजलिन्झरेहिं सिञ्चन्ती देसकालकलसेहिं। दंसिस्सदि कजफलं गुरुअं चाणक्कणीतिलदा॥
- (त) हा सोम्म अज्ञउत्त किहं नि । (सहसोत्थाय) हद्धी हद्धी दुस्मिविणेण विष्पलद्धा अहं अज्ञउत्तसुम्णं विअ अत्ताणं पेक्खामि । (विकोक्य) हद्धी हद्धी एआइणिं मं पसुत्तं उन्झिअ गदो अज्ञउत्तो । किं दाणिं एदं । होद्द से कुपिस्सं जह तं पेक्खन्ती अत्तगो पहिवस्सं । को एत्थ परिअणो ।
 - 4. (1) Refer to the context and clearly explain in simple Sanskrit :-
- (a) एसो पिअवअसो <u>हंसो</u> विअ विमुक्तमानसो करी विअ मअक्खामो मुणाछदण्डो विअ घनघम्ममिलाणो दिगदीओ विअ विअल्अिच्छाओ पमाद-पुण्णिमाचन्दो विअ पण्डुरपरिक्खीणो चिट्ठदि ।
- (b) अम्बरमहासरेक्कसहस्सपत्त पुब्विदसावहूमुहमण्डळकुइस-विसेसअ सअलभुवणाङ्गणदीवअ एरथ सिविगअ<u>रंसने</u> जं किं वि अचाहिटं तं भश्रवदो पणामेण कुसळपरिणामी ससटव्भादुअस्स अजाउत्तस्स होषु ।
 - (r) तुज्य ण आणे हिअअं मम उग कामो दिवा वि रित्सिस । णिन्घण तवइ वळीअं भुइ बुत्तमणोरहाई अङ्गाई ॥
 - (d) सामिश्र संभाविशा जह अहं तुए अमुणिशा । तह अणुरत्तस्स जद्द णाम तुह उवरि ॥ णं मे लुक्तिश्वपारिजाअसभगिजाशिम होन्सि । णन्दनवणवादावि अखुण्हका सरीरए ॥

- (ii) Explain the historical allusion in extract (g) in Question 2. What is mentioned in the extract as पबदीसले ?
- 5. (a) Indicate the peculiar characteristics of the Prākrit dialects in which extracts (a), (f), and j) in Question 2 are composed.
- (b) Comment (according to Prakrit grammar) on the words underlined in the extracts in Questions 2 and 4.

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6. Name and explain the figures of speech in extracts (a) of Question 2. [হিছিমা খুনাতলিহাহৈছিল বি], (i) of Question 2, (a) of Question 3, and (a) of Question 4.

SECOND HALF

Examiner-MR. KSHITISCHANDRA CHATTERJEE, M.A.

[Full marks-25]

Translate any one of the following passages into Sauraseni 25 Prākrit:—

- (a) अस्ति विद्रभी नाम जनपदः । तिस्मन् भोजवंशभूषणमंशावतार इव धर्मस्य, रिक्षतश्रत्यः कोर्त्तिमान्, शास्त्रप्रमाणकः पुण्यवर्मा नाम नरपित-रासीत् । स सर्वगुणः समृद्धोऽपि दैवाइण्डनीत्यां नात्यादतोऽभूत् । तमेकदा रहिस वसुरिक्षतो नाम मन्त्रिवृद्धः पितुरस्य बहुमतः प्रगल्भवागभाषत । तात सर्वेवात्मसम्पद्दिभजनात् प्रशृत्यन्यूनेवात्तभवित दृश्यते । बुद्धिश्च ते निसर्गपट्वी कछासु नृत्यगीतादिषु चित्रेषु च काव्यविस्तरेषु प्राप्तविस्तारा तवेतरेभ्यः प्रतिविशिष्यते । तथाप्यादावप्रतिपद्यात्मसंस्कारमर्थशास्त्रेषु अनिनसंशोधितेव हेमजातिनीतिभाति बुद्धिः । बुद्धिहीनो हि भूभृद्द्युष्टिन्तो-ऽपि परेरथ्यारुद्धमाणमात्मानं न चेतयते । अयथावृत्ता च कर्मसु प्रतिहन्य-मानः स्वैः परेश्च परिभूयते । न चावज्ञातस्याज्ञा प्रभवति प्रजानां योगक्षेमारा-धनाय । आगमदीपदृष्टेन सक्वथ्वना सुखेन वर्त्तते छोकयात्रा ।
- (/) श्रुत्वा च तां तापसीगिरम् अहमपि प्रवृद्धवाष्पो निगू हमभ्यधाम्, यद्ये वमम्व समाश्वसिहि । नन्वस्ति कश्चिन्मुनिस्त्वया तद्वस्थया पुत्ताभ्युप-पादनार्थं याचितः, तेन स छ्व्धो विधितश्च । वार्ता चेयमितमहती, किमनया, सोऽहमिसा । शक्यश्च मयासी विकटवर्मा व्यापादियतुम् । अनुजाः पुनरतिबहवः, तेरिप घटन्ते पौरजानपदाः । मान्तु न कश्चिदिह ईरक्तया जनो जानाति । पितराविप ताविद्देश्यं न संविद्दाते किमुतेतरे । तदेनमर्थमुपायेन साधयिष्यामीत्यगादिषम् । सा तु वृद्धा सहदितं परिष्वज्य मुद्दुः शिरस्युपाम्राय प्रस्तुतस्तनी सगद्भदमगदत्, वत्स चिरं जीव, भन्नं तच । श्रसन्नोऽद्य भगवान् विधिः । अद्ये व प्रहारवर्मण्यिष विदेहा जाताः, यतः

अस्वमानपीनबाहुर्भवानपारमेतच्छोकसागरमद्योत्तारियतुं स्थितः । अहो महन्द्रागधेयं देव्याः प्रियंवदाया इति हर्षनिर्भरा स्नानभोजनादिना मामुपाचरत् । अशिश्रियञ्चासिन् मठैकदेशे निश्चि कटशय्याम्, अचिन्तयञ्च विनोपधिनायमर्थो न साध्यः, स्त्रियञ्चोपधीनामुद्भवक्षेत्रम् । अतोऽन्तः पुरवृत्तान्तमस्या अवगम्य तहारेण किञ्चिजालमाचरेयम् इति ।

(GROUP H) SEVENTH PAPER FIRST HALF

Examiner—Pandit Hargovind Das-Seth
[Full marks—75]

- निम्नोद्धृतेषु यत्किमपि <u>पचत्रयं</u> छन्दोनामळक्षणनिर्देशपूर्वकं 25 ब्याख्याहि:—
 - (a) गयसज्ज्ञसस्स मयरद्वयस्स कुसुमज्ज्ञश्रोतदुः अस्स । कंके छिप छ्विमसा आसि पयावी समिज्ज्ञंती ॥
 - (b) वंदे भंडीरस्सवि चिरस्स फुल्लिम्म जिम्म अलिओली । नीलमणीण त इक्षरा वणसिरिपिट्टीइ कवरिब्व ॥
 - (r) भमरालिखे झसचिन्धयचिष्हे आसि सिंदुवारिमा । भस्तियझसिंधजीवाउभण्यचुद्धां किर पराओ ॥
 - (त) सोहेइ सुहावेइ य उवहुजांतो छवोवि छच्छीए। देवी सरस्सई उण असमग्गा किंपि विणडेइ॥
 - (e) नियआए चिय वायाए अत्तणो गारवं निवेसंता । जे एंति पसंसं चिय अयंति इह ते महाकहणो ॥
 - (f) ताव अ दरदिलिउप्पछपछोट्टचूलिमङ्गलंतकछहंसकुछो । जाओ दरसंमिकिअहरिआअंतकुमुआअरो पच्चसो ॥
- 2. निम्निक्खितानां पद्मानां प्राकृतप्रभेद (dialect) निर्वेशपूर्वकं 25 संस्कृतच्छायां विधेद्दि ; प्रत्येकं चेदं महाराष्ट्रीप्राकृते परिवर्तयः
 - (a) करियावणिउद्धारं गुरुभावं गबुय कबुय बिछवंधं । गच्छिय खच्छिमुविंदोओदि भवं ओषु इंदसमो ॥

- .(b) पम्लान राचिला गुननिधिना रम्ला अनम्लपुम्लेन । चिंतेतस्वं मतनातिवेरिनो किछ विजेतस्वा ॥
- तेतु करेवि अणाउळउं वयणु करेवि अचप्पळउं ।
 कम्मु करेप्पिणु निम्मळउं झाणु पञ्जंजसु निचळउं ॥
- 3. निम्नोबृतानां वृत्तानां प्रसङ्गानुसंधानपूर्वकं व्याख्या कार्यो, रेखा- 35-क्कितेषु व्याकरणकार्यं च प्रदर्शनीयम् :—
 - (a) <u>उक्लयसंठित्रअ</u>निवेण जेण वच्छत्यलाओ हरिणोवि । उक्लाया भुयदंडे नियम्मि संठाविका लच्छी ॥
 - (b) <u>उन्ममणुद्धं</u> च ठिआ दोछासुं विज्ञविजिय<u>कन्हारा</u>। कम्भारजम्मपीवछकरजुग्गयचरणजुम्माओ॥
 - (c) काळगुणा पढमकईहिं भिमयमपरिग्गहेसु मग्गेसु । इहरा मईहिं हीरंति दुक्रं केवि काणंपि ॥ अथवा।
 - (a) विरइअह्छिह्कन्दाभदीवओ नवहिछिहिरत्तकरो । अहिछहाराओ कामउब्व पुब्वं भयइ सूरो ।
 - (b) जोग्हाएब्व <u>मिअंकं कित्तीअ</u>ब्व सुउरिसं पहाएब्व रिवं । सेलं महाणईअ व सिरीअ चिरणिगगआइ वि असुचांतं ॥
 - (r) अक्कमिआ विसएहिं <u>टिरिटिइंता</u> पुरन्धिसेवाए । ही दुण्दुङ्गन्ति भवे चक्कम्मब्विआ कुकम्मेहिं॥

SECOND HALF

Examiner—PANDIT VIDHUSEKHAR SASTRI
[Full marks—25]

Translate (a) or (b), and any two of the remaining passages 25into English:—

(a) रामो सन्धेष्ठ सरं विभीसणं

तेण वलह रक्षसलच्छी ।
दहमुखविणासपिसुणं फुरह्अ
सीआह तक्खणं वामच्छं ॥
वामं णिसिअरणयणं रहुवहणो
दाहिणं च फन्द्ह णअणं ।
बन्धुवहरज्जपिसुणं पप्फुरह्

तस्स हअस्स रणमुहे रक्खस-णाहस्स अहिम्रहं अप्पाणी। दसहि वि सुहेहि समअं सिहा-कराको व्य हअवहो जिक्कन्तो ॥

(b) अह गिह्थिम्म दह्मुहे अससि-अम्मि अ समन्तओ तेल्लोक । वभगम्मि उप्यसिका भिउडी ओआरिअं च रामेण घणुं।

काऊण अ सुरकज्जं रहुवइ-वीसजिएण कइजणपुरओ। जळहरगुप्पन्तधओ सग्गाहिमुहो रहो कओ माअलिणा॥ घेत्रण जणअतणअं कञ्चणकि व हुअवहास्मि विसुध्धं। पत्तो पुरिं रहुवई काउं भरहंस्स सप्फलं अणुराअं ॥

- दीसन्ति जोयसिद्धा अञ्जल-(c) सिद्धा वि केवि दीसन्ति। दारिहजीयसिद्धं मं ते होया न **पे**च्छन्ति ॥ किं वा कुलेण कीरह किं वा विणएण किं व रूवेण। धणरहियाणं सुन्दरि नराण को आयर् कुणइ॥
- (d) जलणडहणेण न तहा पत्थरघसणेण खण्डणे तह य । गुआहरसमतुरुणे जं दुक्खं होह कणयस्य ॥ जइ निथ्य गुणा ता किं कुलेण गुगिणो कुरुण ण हु कजां। कुळमकळइं गुणवजियाण

गहयं चिय कछहं॥

(c) अञ्चया भणियो भजाए। अजनत अत्य इत्के नयरुजाने अजियजिणिन्दमन्दिरदुवारदेशे अजियबका देवया अपुत्ताण पुत्तं अविताण वित्त' अरजाणं रजां अविजाणं विजां असुनखाणं सुनखं अचनखुणं चक्खुं सरोयाणं रोयन्सपं देइ। कयं सेहिणा तीए ओवाइयं। कमेण जाओ पुत्तो । तस्स क्यं अजियसेणोत्ति नामं । जणयमणोरहेष्ठिं सह बहुओ अजियसेणो । सिविसयक्छाक्छावो छावस्रुक्ष्युव पवस्रो तारुकः ॥

(GROUP H)

EIGHTH PAPER

FIRST HALF

Examiner-Dr. Sunitikumar Chatterjee, M.A., D.Lit.

[Full marks 75]

The questions are of equal valve. You are to ottempt FIVE questions only in this half, of which ONE must be selected from among Questions 9 and 10.

- 1. Give a brief comparative statement of the contents of the Prakrit grammars of Vararuci, Canda, and Hemacandra, discussing their dates and their relative importance. What development of Prakrit (or advance in Prakrit studies) do you note in these works chronologically considered?
 - 2. Decline three of the following :-
- (i) गत: in Saurasenī; (ii) नदी in Mahārāṣṭrī; (iii) माता in Saurasenī; (iv) मह्य in Māgadhī; (v) प्रसाद in Māgadhī; (vi) पुत्र in Apabhraṃsa.
 - 3. Discuss fully two of the following: -
 - (i) The formation of the future tense in the Prakrits.
 - (ii) The formation of the passive in the Prakrits.
 - (iii) The conjunctive indeclinables and verbal nouns of Prakrit.
- 4. Explain fully, giving examples wherever necessary, three of the following terms:—

प्राकृतम् ; देशी ; बहुछम् ; आर्षम् ; पैशाची ।

5. Explain the formation of seven of the following words, quoting sūtras (from either Vararuci, or Caṇḍa, or Hemacandra, with references):—

सीहो; सरिसो; किछित्त; सुन्देरं; सीमरो; भरहो; दोहलो; छाहा; पढमो; हरूहा: चिळाओ; छट्टी; वम्महो; छत्तिवण्णो; मसाणं; सूरो; केवटो; अञ्जू; रुवह।

- 6. Explain five of the following sutras, with illustrative examples, and with references to the grammatical texts in which they occur:—
 - (i) चवर्गस्य स्पष्टता तथो**चारणः ।**
 - (ii) वकादिषु ।
 - (iii) अमि हस्तः ।
 - (iv) इच बहुयु—के।
 - (v) मध्येता ।
 - (vi) इस्तः संयोगे ।
 - (vii) समासे वा ।
 - (viii) संयोगे परे छोपः ।
- 7. Give a survey or the use of Prakrit in the Fanskrit drama from Advaghosa downwards.

- 8. Identify the dialect of the following passages, and discuss the character of any two of them :---
- (i) चहुरो मधुरो अ अअं उवण्णासो। ण जुत्तं अज्ज एरिसेण इध अअदाए मए पडिवसिद्धं। भोदु। एडवं दाव भणिस्सं॥
- (ii) अज्ज-गोवाछदारओ अज्ज चारुदत्तस्स पवहणं अहिरुहिअ अवक्रमदि त्ति ज़ इकहिज्जदि, तदो अज्ज-चारुदत्तो रण्णा सासिज्ज । ता को पृत्य उवाओ । कण्णाटकछह्प्यओअं कलेमि ॥
- (iii) कथं अपावे चालुदत्ते वावादीअदि । हगो णिअलेण शामिणा बंधिदे । भोदु । अक्रन्दामि । शुणाध अज्जा शुणाध । अत्थि दाणिं मए पवहणपिंदवत्तेण पुष्पकळण्डअजिम्णुज्जाणं वशन्तशेणा नीदा ॥
 - (iv) अमअमअ गअणसेहर रअणीमुहतिस्अ चंद दे छिनसु । छित्तो जेहि पिअअमो ममं पि तेहिं चिअ करेहिं॥
- (v) पोछासपुरे नामं नयरे । सहस्सम्बवणे उज्जाणे । जियससू राया । तत्य णं नयरे सहाछपुत्ते नामं कुंभकारे आजीविओवासए परिवसह ॥
 - (vi) जो गुण गोवइ अप्पणा, पयडा करइ परस्सु । तसु हुनं किन्निज्ञिंग दुल्लहहो बिल किन्ननं सुअणस्सु ॥
- 9. Discuss the history of fine of the following Prakrit affixes in the Modern I ndo-Aryan vernaculars:—
- (i) বুৰা of the feminine; (ii) কীৰ of the genitive; (iii) আৰু, the affix of the neuter plural; (iv) আন of the present participle; (v) adjectival আৰু, বুল; (vi) एকাই or বুৰাই of the future participle passive; (vii) আন of the present tense third person plural; (viii) -বি- of the future.
- 10. Give a critical account of Hoernle's views regarding the mutual relationship of the various Prakrits.

SECOND HALF

Examiner—Pandit Vidhusekhar Sastri [Full marks—25]

Translate the following passages into Sanskrit :-

25

(a) तो कइ दिज ग चार्व कुण्डळ मणिकिरणघडिभजीमा बन्धं ।

गुको रामस्स उरे पढमं हभवन्धुणा दहसुहेण सरो ॥
वेभपडिएण तेग म तह धीरो वि परिकम्पिमो रहुणाहो ।
अध्याणणिकिसोसं सम्रष्टं जह णेण कम्पिमं तेहीकः ॥
रहुणाहस्स वि वाणो अपुर्विक्तिके अपुर्विक केंद्ररं ।
दहवभणसुम्राणिहामं ताक्रवणस्त्रम्थपरिभणेन सहगमो ॥

Or.

तो से मुच्छाविहको कोहिअणीसन्दभरिअकोअणिवहो है वारंवारपअहो भमिओ बाहुसिरुरेसु मुहसंघाओ ॥ अह णिगगअमिलिएहिं अल्लीणसमागएहि स विमुक्करवं । रअगिअरवाणरेहिं दिग्णं सहिअं च गरुअरणपत्थाणं ॥ रोसस्स दासरहिणो मअणस्स अ दूसहस्स रक्खसवहणो । समअं चिअ अड्डत्तो दोग्ह वि अणुरूअदारुणो परिणामो ॥

(b) मुत्ताहकं व कन्वं सहाविवमलं सुवण्णसंघडियं। सोयारकण्णकुहरिम्म पयडियं पायडं होइ॥ अणवरयबहरूरोमञ्जकञ्च्यं जिणयजणमणाणन्दं। जंण घुणावह सीसं कन्वं पेम्मं च किं तेण॥

गज्जन्ति घणा भग्गा य पन्थया पसरियाउ सरियाओ । अज्ज वि उञ्जयसीले पियस्स पन्थं पलोएसि ॥ ताण य पुत्तो नरवाहणो ति नामेण उक्कडपयावो । कमलावहत्ति नामा धूया अखंतरूववई ॥

(c) एवं इत्थीयणर् एहेण तुच्छत्तणेण तम्मन्तचिन्ता निश्वं पि चिद्वए मूछा । अञ्चया गिन्हुन्हपीडिओ हृहाओ आगओ गिहं से ही । दिव्यवसेण न अञ्चो को वि कम्मयरो अत्थि ति वारन्तस्स वि से हिणो पाए प्रवसाछि उं प्यष्टा विणीयत्तणओ चन्दणा । तीए य निस्सहङ्गीए अकयकम्मन्भासाए स्हिसओ सिणि इकिसणो केसपासो । वच्छाए केसपासो पिह्न हिह्त हे पि इत्त पहुणा मा सिष्य कि विषय कि विश्वास कि विश्वास विश्

Or.

पहाप ते परहदाणपुच्चं उग्घोसणं स्णान्ति । जो कणयसारसेहिधूणं कणयसुन्दिरं सप्पदहं जीवावेह हेही से दीणारस्वलं देह । तश्रो सुन्दरेण वाराविश्रो परहश्रो । भणिया पुरिसा दंसेह तं मे । तेहिं वुत्तं पसायं काळण एह । गश्रो मित्तेण सह सुन्दरो । दिहो हेही कणयसुन्दरी य । कहिश्ल जहहियं वुत्तन्तं भणियं सेहिणा भइ कणयसुन्दिरं जीवाविळण देशु मे जीवियं ।

(GROUP I)

FIFTH PAPER

FIRST HALF

Examiner-Dr. Hemchandra Raychaudhuri, M.A., Ph.D.

Full marks -701

1. Write a note on the historical literature of Ancient India. What are, in your opinion, the chief merits of the Rajatarangini?

Or.

Give a brief account of the topography of Kasmir, with special I6 reference to the data supplied by Kalhana's chronicle.

2. Write a critical note on Kalhana's accounts of Jalauka, Juska, 16 Khinkhila, Narenoraditya, and Mātrgupta.

Or.

Bring out the importance of the reign of Jayapida Vinayaditya 16 from the point of view of political and literary history.

3. Explain any three of the following passages :-

18

- (a) श्रीत्रिलोचनपाछस्य शाहेः साहायकार्थिनः । देशं ततो मार्गशीर्षे मासि तं व्यसृजखृपः ॥
- (b) प्रातस्ततः स्वयं कोपात् तुरष्कानीकनायकः । सर्व्वाभिसारेणागच्छच्छलाइवविशारदः॥
- (c) स शाहिदेशः सामात्यः सभूभृत् सपरिच्छदः । किमभूत किम् वा नाभृदिति सक्किन्स्यतेऽञ्जना ॥
- (d) सप्तभिम्लेंच्छभूपाछैः समं मिछितडामरः । तेनानीतो दरद्वाजो यक्षादचळमङ्गळः ॥
- (e) शीर्ज्यं निष्परिवारस्य पार्थस्योत्तरगोप्रहे । उरशा सम्प्रवेशो वा श्वतं महस्य मानिनः॥
- 4. Write notes on any four of the following:-

20

- (a) The Laukika era.
- (b) Sārvabhauma and Prādefakeávara.
- (c) कविर्वाक्पति-राजग्रीभंवभूत्यादि-सेवितः।
- (d) Candrācārya, the contemporary of Abhimanyu I.
- (e) Sūra, the minister of Avantivarman.
- (f) Zain nl-abidin (Jainollabhadina).

SECOND HALF

Examiner-Dr. Amareswar Thakur, M.A., Ph.D.

[Full marks-30]

Translate into English (a) and either (b) or (c) :-

30

- (a) एवं विधस्य च पुण्यवतः कथित् प्राप्तस्य केन प्रियं समाचराम इति परिष्ठवं चेतो नः । सकळवनचरसार्थसाधारणस्य कन्दमूलफलस्य गिरि-सरिदम्भसो वा के वयम् । उपयोगन्तु न प्रीतिर्विचारयति । यदि च नोपरुणित् कश्चित् कार्य्यलवम् अरक्षणीयाक्षरं वा कथनीयं कथयतु भवान् श्रोतुमभिळपति हृद्यं सर्व्वमिदं नः । केन कृत्यातिभारेण भव्यो भूषितवान् भूमिम् एताम् अभ्रमणयोग्याम् । कियदविधर्वा श्रून्याटवीपर्य्यटनक्के शः कर्म्याणराशेः । कस्माच सन्तप्तरूपा इव ते तनुरियमसन्तापाहां विभाव्यते ।
- (b) आचारयंस्तु ताम् उद्धृत्य बबन्ध बन्धुरे स्कन्धभागे भूपतेः । अथ नरपतिरिप प्रीतिमुपदर्शयन् प्रत्यवादीत्—आर्थ्य ! रक्षानामीद्दशान् नामनद्दां प्रायेण पुरुषाः । तपःसिद्धिरियमार्थ्यस्य देवताप्रसादो वा । के च वयमिदानीम् आत्मनोऽपि किमुत प्रहणस्य प्रत्याख्यानस्य वा । भवद्दर्शनात् प्रभृति प्रभृतगुरुगुणगणहतेन हृदयेन परवन्तो वयम् । सङ्कल्पितिमदमामरणाद् आर्थ्योपयोगाय शरीरम् । अत्र कामचारो न कर्त्तव्यानामिति ।
- (c) अपरेशुश्च प्रातरेवोत्थाय वाजिनमधिर समुच्छित्रक्वेतातपतः समुद्ध्यमानधवल्वामरयुगलः कतिपदैरेव राजपुत्तेः परिवृतो देरवाचारयं सिवतारिमव शशी द्रष्टुं प्रतरथे। गत्वा च किञ्चिदन्तरं तदीयमेवाभिमुखमा-पतन्तमन्यतमं शिष्यमद्राक्षीदप्राक्षीश्च क्व भगवानास्त इति। सोऽकथयत्—अस्य जीर्णमातृगृहस्य उत्तरेण विल्ववारिकामध्यास्त इति। गत्वा च तं प्रदेशमवततार तरङ्गमात् प्रविवेश च वित्ववारिकाम ।

(GROUP I) SIXTH PAPER

Examiners - { Prof. D. R. Bhandarkar, M.A., Ph.D. Dr. B. M. Barua, M.A., D.Lit.

Answer FIVE questions only, including Question 1, which is compulsory.

 (a) Atikrātam amtaram na bhūtapurva sava kāla athakamme vā pativedanā vā. Ta mayā evam katam: save kāle bhumjamānasa me orodhanamhi gabhāgāramhi vachamhi va vinitamhi cha uyānesu cha savatra pațivedakă stită-athe me janasa pativedetha iti.

- (b) Athavashābhisitashā Devānampiyasha Piyadashine lājine Kaligyā vijitā. Diyadhamāte pānashatashahase ya taphā apavudhe satasha hashamāte tata hate bahutāvamtake vā mate.
- (c) Nathi chā sho janapade yatā nathi ime nikāyā ānamtā Yoneshu bamhmane chā shamane chā nathi chā kuvā pi jan padashi yatā nathi manushānam ekatalashi pi pāshadashi no nāma pashāde.
- (d) Magesu pi me nigohāni lopāpitāni chhāyopagāni hosamti pasumunisanam, ambavadikyā topāpitā, adhakosikyāni pi me ndupānāni khānāpāpitāni, nimsidhiyā cha kā āpītā, āpānāni me bahukāni tata tata kālāpitāni patibhogāye pasumunisānam. Lahuke chu esa patibhoge nāma. Vividhāyā hi sukhē yanāyā pulimehi pi lā jihi mamayā cha sukhayite loke. Iniam chu dhammanupatipati anupatipajamtu ti-etadatha me esa kate.
- (e) Etaye cha athaye hakam dhammate pamchasu pamchasu vasesu nikhāmayısāmi e akhakhase achamdam sakhinālambhe hosati. Etam athum janitu tatha kalamti atha mama anusathi ti. Ujenite pi chu kumāle etāyeva athāye nikhāmayısam. Hedisam eva vagam no cha atikāmayisati tımnı varani.
- (1) Transcribe the extract (a) in Asokan Biahmi or Kharoslithi. 8 (ii) Rewrite the extract (d) in Sanskrit. (iii) Discuss the bearing of the extract (b) on the military strength of Kalinga and that of the extract (c) on the Hinduisation of India. (iv) Translate any two of the above extracts into English, adding 16 explanatory notes where necessary. 2. Write short explanatory and critical notes on any four of the 15 following :-(a) Asti pi tu ekachā samājā sādhumatā. (b) Atikātam amtaram na bhūtaprurvam dhammamahāmātā nāma, (c) Asti jano uchāvacham mamgalam karote. (d) Mahālake hi vijitam. (e) Lajūkānam abhihāle va damde vā atapatiye kate. (f) Mayā samghe upayīte. (g) Lumminigame ubalike kate athabhagiye cha. Distinguish between :-15 (a) Mahāmātā and Dhammamahāmātā, (b) Dhammayātā an I vihārayātā. (e) Bherighosa and dhammaghosa. (d) Dhammathambha and silathambha. 4. Give a general idea of dialectical peculiarities of the inscriptions of 15 Asoka, noting the points in which the Asokan language agrees with and differs from Sanskrit.
- What are the probable results of the discovery of a new set of Rock
- Edicts in South India, south of Mysore?
- Write a short dissertation on the administrative system of Asoka. 15 dealing with the following points: -
 - (a) improvement on the earlier system;
 - (b) m chinery employed; and (c) methods and ideals.
- What are the main tenets of Asoka's Dhamma, and how far can 15 these be shown to tally with the general tenets of Hinduism and Buddhism?
- Ascertain the value of the inscriptions and legends of Asoka as 15 historical materials.

(GROUP I)

SEVENTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-Dr. NIRANJANPRASAD CHAKRABARTI, M.A., Ph.D.

[Full marks—50]

Attempt ANY THREE

- 1. Comment on the following with reference to the context:-
 - (a) Mālava-gan i-sthitivasāt = kāla-inānāva likhiteshu.
- (b) Atha jayati janendrah śri-Yaśodharma nāma......... W Ajau jitī vijayate jagatīm=punaś=cha śri-Vislipuvarddhana-purādhipatih sa eva [
- (c) Unmuly = Achyota-Nāgasena-gdandair = grā-hayat = aiva kotakulajam Pushpāhvave krīdatā.
- (d) Chuda pushp-opaharair = Mmihirakula-pripen = arch-chitam padayugmam.
 - (e) Svayam-adbigata-Mahakshatrapa-namna.
- 2. Give, fr m the inscriptions you have read, an idea of the conditions of land-tenure and land-revenue administration in North Bengal during the fifth and sixth centuries A.D.
- 3. Discuss the importance of the Junagadh Rick Inscription of Rudradaman from literary and historical points of view.
- 4. Ment on the conquests of Samudragupta in extreme south and define the dominion under his direct government.
- 5. State all that you know of Skandagupta and his government from the inscriptions of his time.

SECOND HALF.

Examiner—DR. HEMCHANDRA RAY. M.A., PH.D.

Answer only THREE questions, of which the FIRST must be one.

- 1. Translate the following into English, adding historical and critical notes:-
- (a) Pitari divam = upete viplutām vanša lakehmīm bhuja-bala-vijit ārir =yyah prau-hthāpya bhūvah jitam=iti paritoshān=mātaram sāsra-netrām hata-ripur= va Krishno D oakīm= bhyupetah.
 (b) Kr t-n -1 rithvi jay-ārthena rā n=aiv=eha sah=āgatah bhakyā

bhagavataś = "ambhor = ggul ām = etām = akārayat.

- (c) A Lauhitya-opiknthät = tala-vana-gahan-opatyakad = a Mahendrad = a Gang-asalishta-sanos = tuhinasikharinah = paschimad = a psyodheh I Samantair =yasya bahu-ravin i hrita-madaih tadavor = anamadihis = chudaratn ansu-raji vyatikara-sabala bhūmi-bhāgah kriyai te I
- Write notes on the following, supporting your statements by epigraphic evidence :-
 - (a) Origin of the Senas.
 - ib) Their conquests under Vijayasena.
- Write a short history of the Maukharis with special reference to the Haraha inscription of Isanavarmam and other contemporary records.
 - 4. Give an account of the Sailodbhavas of Köngöda-Mandala from

epigraphic sources.

5. Explain the historical significance of the following passage:-

Bhojsir=mmatsyaih sa Madraih Kuru Yadu. Yavana-venti-Gandhara-Kirai-bbupair = vyā!ola-mau'ı-pranati-parınata-ih sadhu-sangrir = yyamanah ! brishyat-Panch lavriddh = oddhrita kanakamaya-avavish k = odakumbho datta śri-Kanya-kubja = ssalalita-chalita-bhrulata-lakahma yenat

6. Transcribe into Roman or Devanāgarī character the passage appearing on attached plate:—

(GROUP I)

EIGHTH PAPER

FIRST HALF

Examiner-Dr. Hemchandra Raychaudhuri, M.A., Ph.D.

Full marks -50]

THREE questions to be attempted, including Question 5.

15

15

- 1. "In addition to a wider geographical outlook, the Brāhmana period is marked by the knowledge of towns and definite localities." Elucidate.
- 2. "The ancient Indians had a very accurate knowledge of the true 15-shape and size of their country." Critically examine this statement.
 - Write notes en : Nagarahāra, Pushkalāvatī, Sā'ātura, Bhrizu-kachha, Prithudaka,

Ahichhstra, Sankisa, and Samatati.
4. Discuss the denotation of the 'Pūrva-deśa,' with special reference

- to the evidence of the Kāvya-mīmāmsa
 - 5. Comment on the following: -
 - (a) भारतस्थास्य वर्षस्य नव भेदान् निनोध से। समुद्रान्तरिता जीयाने त्वगम्याः परम्परम ॥
 - (b) पुष्पो गिरिदु औं यन्तो रैवतोऽर्व्यूट एव च ।
 - (c) क्रपा पलाशिनी चैव ग्रुक्तिमत प्रभवा: खाता: ॥
 - (d) कश्राया मेखलासुष्टासामिति कपादपा:। वर्डमाना: कीश्रसाय सुखे कुर्यं ६ संख्यिता:॥

SECOND HALF

Examiner-Dr. SUKTHANKAR

[Full marks-50]

Translate into idiomatic Sanskrit any two of the following passages:-

- (a) But Bhīma is not the only one who performs these prodigies of valour. Parasurāma exterminates all the Kṣatriyas not once, but many times. Ghatotkaca is killed while flying in the air and in his fall crushes a whole legion of soldiers; but his mother was an ogress, Hidimbā, and anything is possible for the offspring of Hidimbā and Bhīma. Pradyumna does wonders against Salya; Bhīṣma can vanquish hundreds of princes sing!e-handed Whenthe Kuru host was carrying off Virāṭas cattle, Arjuna routed them practically unaided. Attacked by the great Kaurava warriors on all sides, Arjuna is pierced by hundreds of arrows, but remains unmoved. Likewise Arjuna wounds Bhīṣma with a thousand shafts without any appreciable effect.
- (b) Such exaggerations are no exceptions, but form the general rule. One has to get used to them in the Indian epic, for at times it is difficult to get behind these exaggerations and think of a substratum of fact underlying them. The grotesqueness and improbability of some parts of the stories may lead us to reject the whole as imaginary; but, as has been pointed out, we must always

guard ourselves against such an assumption. The question remains whether all heroic stories were ultimately based on fact, or whether some were my hical in origin. A few Teutonic stories have been sometimes held to be ultimately myths.

(c) As a mother, even at the risk of her own life, protects her son, her enly son, so let there be goodwill without measure among all beings. Let goodwill without measure prevail in the whole world, above, below, around, unstinted, unmixed with any feeling of differing or opposing interests. If a man remain steadfastly in this state of mind all the while he is awake, whether he be standing, walking, sitting, or lying down, then is come to pass the saying, 'Even in this world holmess has been found.' The following are the Ten Fetters, evil states of mind, or sins, from which the aspirant is freed as he treads the Four Paths.

PALI

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. SAILENDRANATH MITRA, M.A.

Only THREE questions should be attempted, including Question 1, which is compulsory.

- 1. Translate any two of the following extracts into English, adding notes where necessary:—
- (a) Na kho Ambattha anuttarāyn vijjā caraņa sampadāya jāti-vādo vā vuccati, gotta-vādo vā vuccati māna-vādo vā vuccati: "Arahasi vā mam tvama na vā mam tvam arahasīti" Yattha kho Ambattha āvāho vā hoti vivāho vā hoti āvāha-vivāho vā hoti etth etam vuccati jāti-vādo iti pi, gotta-vādo iti pi, māna-vādo iti pi: "Arahasi vā mam tvam na vā mam tvam arahasīti." Ye hi keci Ambattha jāti vāda-vinibandhā vā gotta-vāda vinibandhā vā māna-vāda-vinibandhā vā āvāha-vivāha-vinibandhā vā, ārakā te abuttarāya vijjā-caraņa-sampadāya. Pahāya kho Ambattha jāti-vāda-vinibandhan ca gotta vāda-vinibandhan ca māna-vāda vinibandhan ca svāha-vivāha-vinibandhan ca anuttarāya vijjā-caraņa-sampadāya sacchikiriyā hotīti.
- (b) Idha mahārāja Tathāvato loke uppajjati, araham sanīmā sambuddho vijjā-caraņa sampanno suga o loka-vidu anuttaro purisa-dhamma-sārthi satthā deva-manussānam buddho bhagavā. So imam lokam sadevakam samārakam sabrahmakam sassamaņa-brāhmaņim pajam sa-deva-manussam sayam abhinnā sacchikatvā pavedeti. So dhammam deseti ādi kalyānam maj he kalyāņam pariyosāna-kalyāņam sāttham savyan sanan, kevala-paripuņņam parisuddham brahmacariyam pakāseti. Tam dhammam suņāti gahapati vā gahapati-puttovā annatarsmim vā kule paccājāto. So tam dhammam sutvā Tathāgate saddham patilabhati
 - (c)
 1. Chandā dosā bbayā mohā
 Yo dhammam ativattati,
 Nihīyati tavsa yaso kāla pakkhe va candimā.
 - Chandā dosā bhayā mubā
 Yo dhammam nātivattati,
 Apurati tassa yaso sukkapakkhe va cardimāti.
 - Yo ca sitafica unhanca tină bhiyyo na manfiati Karam purisa-kiccăni so sukhă na vihâyatîti.

2. Explain fully the philosophical views attributed to the Antanantikas. Can Nirvana be rightly attained, acting according to these views? If not, why?

3. Give a short account of any two of the following teachers and trace

the history, if any, of the development of their doctrine :--

(a) Ajita kesa-kambali, (b) Pakudha kaccayano, (c) Sanjayo Belatthi-putto.

4. What was the relative position of the various social grades in ancient India about the sixth century B.C.? Did the Brahmins ever recignise the superiority which the Kahatriyas are alleged to have established over them?

5. Explain fully the symbolical meaning of the popular practice of saluting

the six quarters as discussed in the Singalovada Sutta.

SECOND HALF

Examiner-Mr. Sailendranath Mitra, M.A.

Only TERRE questions should be attempted, of which Question 1 must be one.

- 1. Translate into English :-
- (a) Kassa hi nāma bhante abālassa aduţţhassa amūlhassa avippallatthacittassa âyasmā Sāriputto na rucceyya. Paṇdito bhante âyasmā Sāriputto mahāpañño bhante âyasmā Sāriputto, puthupañño bhante âyasmā Sāriputto, pathupañño bhante āyasmā Sāriputto, iavanapañño bhante āyasmā Sāriputto, nibbedhikapañño bhante āyasmā Sāriputto, nibbedhikapañño bhante āyasmā Sāriputto, pavivitto thante âyasmā Sāriputto santuṭṭho, bhante âyasmā Sāriputto, pavivitto thante âyasmā Sāriputto asamsaṭṭho bhante âyasmā Sāriputto, varanakkhano, bhante âyasmā Sāriputto, varanakkhano, bhante âyasmā Sāriputto, kassa bi nāma bhante āyasmā Sāriputto, pāpagasahī bhante āyasmā Sāriputto, kassa bi nāma bhante abālassa adu, ṭṭhassa anulhassa avippallatthacittassa âyasmā Sāriputto na rucceyyāti.
 - (b) Sākhāpattaphalupeto khandhimā va mabādumo.
 Mulavā phalasampanno patitthā hoti pakkhinam,
 Manorame āyatane sevanti nam vihangamā
 Chāyam chāyatthikā yanti phalattham phalabhejino.
 Tatheva silasampannam saddham puris-purgalam
 Nivātavnttim atthaddham soratam sakhilam mudum
 Vītarāgā vītado-ā vītamohā anāsavā
 Puñňakkhettām lokasmim sevanti tādisam naram.
 Te ta-sa dhammam desenti sabhadukkhāpanudanam
 Yam so dhammam idhannāya parimbbāti anāsavo'ti.
- 2. Write, in your own words, in Pali, a brief commentary on the ollowing:-

Antojatā bahijatā jatāya tatitā pa ā
Tam tam Gotama pucchām, ko imam vijataye jatan ti,
Sile patitt āya naro sapanno, citam pannāca bhāvayam,
Aotāpi nipako bhikkbu, so imam vijataye jatan ti,
Yesam rāgo ca doso ca, avij ā ca, virā i ā,
Khiņasavā arabant , tesam vijatitā jatā.
Yattha nāmanca rupanca, asesam uparujhati,
Patigham rupasannā ca, ettha sā chijjate jatāti.

3. "Sammāditthi Sammāditthi āvuso vuccati. Kittāvatā nu kho āvuso ariyasāvako Sammaditthi hoti?"

Elucidate the central idea of Buddhism which is involved in the answer to the above question.

4 Draw a historical picture of Kosala from the evidences of the Kosala-amyutta.

5. Estimate the literary value of the different types of composition—sutta, eyya, and the rest—which you come across in the Nikāyas.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-MR. GOKULDAS DE, M.A.

Attempt THREE questions only, including Question 1, which is compulsory

- 1. Refute or justify the contention that the Vinaya of the different schools is based upon a parent reduction. How far does the Pali reduction represent the original form? Briefly discuss the views of Dr. Oldenberg on the point.
- 2. Distinguish between the disciplinary rules of the Mahāvagga and those of the Pātimokkha. A count for the growth and development of each.
- 3. Give, according to the Mahāvagga, a short review of the circumstances under which the promulgation of the earliest of the Vinaya rules took place, and describe, so far as can be gathered from these rules, the earliest style of a Buddhist Vihāra together with its constituent parts.
- 4. Dwell at length on the importance of the study and practice of the Vinaya in the light of the following stanza:—

Pamutthamhi ca Suttante Abhidhamme ca tāvade l Vinaye avinatthamhi puna titthati sāsanam l

- 5. Translate into English, and with reference to the context, any three of the following Vinaya rules, bringing out their bearing on the formation of the Sangha:—
- (a) Anujānāmi bhikkhave tumheva dāni tāsu-tāsu disāsu tesu tesu janapadesu pabbā etha upasampā etha.
- (b) Yo bhikkhave anno pi annatitthiyapubbo imasmim dhammavinaye ākankhati pabbajjam, ākankhati upasampadam, tassa cattāro māse parivāso dātabbo.
- (c) Tehi bhikkhave bhikkhūbi sabbeh' eva ekajiham sannipatitvā upasatho kātabbo, yattha vā pana thero dhikkhu viharati tattha sannipatitvā upasatho kātabbo; na tu eva vaguena samahena upasatho kātabbo.
- (d) Te nānā-amvā-akadīţţhim paţilablianti, nānāsamvāsakadīţţhim paţilablitvā na pucchanti apacchitvā ekato uposatham karonti, āpatti dukkatassa.
- (e) Anujānāmi bhikkhave saṃghakarsniyena gantum. Sattāham sannivatto kātabbo'ti.

SECOND HALE

Examiner—PROF. VIDHUSEKHAR SASTRI

Attempt THREE questions only, Question 5 being compulsory.

- 1. What do you understand by the term Pātimokkha? Determine the place of the Pātimokkha code in the Buddhist canou, mentioning its different versions.
- 2. (i) Comment on the following terms, giving their derivations and Sanskrit equivalents: (a) pārājika, (b) sanghādisesa, (c) nissaggiya, (d) tiņavatthāraka, (e) amū[havinaya, and (f) yebhuyyasikā.
- (ii) Give two examples of each of the first three, together with the procedure to be followed in applying each of the last two.
- 3. Comment on the Pātimokkha rules as illustrative of the disciplinary system of the Bhikkhus.
- 4. What is the attitude of Buddhism towards woman and how can it be-

- 5. Explain fully-
 - (a) Any three of the following:-
 - (i) samatittikam sapadānam ca pindapātam bhunjissāmi;
- (ii) guhaputīnam gahapatānīnam vā puecekucīvaracetāpannā upakkhaṭā bhavanti;
- (iii) kim panimehi khuddānukhuddakehi sikkhāpadehi uddiţţhehi yāvadeva kukkuccāya vihesāya vilekhāya samva tamiti;
- (iv) niţţhitacīvarasmim bhikkhumā uhbhatasmim kaţhine dasāhapara-mam atirekacīvaram dbāretabbam;
 - (v) ujjhāyanake khīyanake pācittiyam.
 - (b) Any three of the following:-
- (i) apasakka. (ii) sugatavidatthi. (iii) mätugāmo, (iv) otiņņo (as in bhikkhn otiņņo), (v) ujjhāpeti.

THIRD PAPER

FIRST HALF

Examiner-Dr. Amareswar Thakur, M.A., Ph.D.

[Full Marks-60]

GROUP A

Attempt Two questions only, including Question 3

1. (a) Give Prakrit equivalents for :— sarvajāa, tūrya, aksi, vakra, and vidyut.	5
(b) Give examples of the change of n into l, dha into bha, gha into ha, e into i, and u into a, in Pali.	õ
(c) How are Sanskrit i, r, ai, p, and th represented in Prakrit? Give examples.	10
2. (a) Comment on the following Prakrit forms:	6
citthadi, gadu-a, taluni, alahi, kari-adi, and navari.	
(b) Write a clear note on the difference between Pali and Prakrit declensions and illustrate your answer by declining a masculine or feminine base in i.	8
(c) Illustrate the modes of use of the second case-ending in Pali.	6
3. (a) Define and illustrate kammadhāraya and mention some of its peculiar features.	б
(b) Derive any six of the following words:—	6
purindada, bhujanga, udadhi, jina, mātā, venayika, opagava, and	
kattikeyya.	
(c) (i) एके चाम चमुगाई ये ग्लादो चवदालिच इत्विक्रसे परिहाबिदे।	3
In what particular Prakrit is this passage written? Give reasons for your answer.	
(ii) Translate into Mahāraştrī :—	5
एव पुनर्नेगराहानतः। प्रियंवरि गान्वव्येष विधिना	

विवाहिता मक्तनाचैति भन परितीय:।

6

5

GROUP B

Either, 1. 9 ٠٠ ٠٠.

Give an account of the Vuttodays under the following heads:date and place of composition, authorship, relation with the Vrttaratnākara, general scope of its contents, an i the commentaries written upon it.

Or, Criticise the statement: "Pali Prosody still remains a subject for the deepest investigation, and hardly as yet has anything pproaching a system been reached, far less to speak of perfection." Give illustrations in support of your answer.

- Define and illustrate any two of the following metres: Tanumajihā. Samānikā, Sālinī, and Sasikalā.
 - 3. Scan, naming the metre, any one of the foll wing stanzas:-
 - Sajjanamānasakañjuvikāsam I dujjanatitthivasamkapatāpam 1 lokanabhuggatamāraji-ūram 1 mohatimīsahatam panamāmi 1
 - Ratipatijam mwam jitamunidhamwam t sivapathasalam munijanamalam t tibhavanaketum subhazunahetum I bhajatha jana bho tamiha sulabho

SECOND HALF

Examiner-Dr. Sunitikumar Chatterjee, M.A., D.Lit.

[Full marks-40]

Answer THREE questions only

1. What do you understand by Satem and Centum Languages? Indicate by means of a diagram the position of Pali in the Indo-European family of languages, showing also its relationship with Bengali, Sinhalese, Persian, Greek, French, English and Russian.

2. Discuss the connexion between Pali and Sanskrit. What do you understand by 'Prakrit' and 'Apabhrama'? How does Pali stand in relation

to these? Comment on the statement, that Pali is but a kind of Prakrit.

3. Explain the meaning and origin of the term Pali. Was Pali the language spoken by the Buddha? Are there any indications about a canon of Buddha-literature older than Pali?

4. Explain the working of four of the following phonetic processes, with examples from Pali: Cerebralisation, Nasalisation, Palatalisation, Syncope, Voicing, Anaptyxis. What do you understand by the term 'Magadhism'?

Decline either sakht or silavant. in Pali, explaining with reference to

Old Indo-Aryan (Sauskrit) all the forms.

6. Write a note on the Pali forms for the cardinal numerals.

- 7. What are the tenses of the Pali verb, and how did they originate from Old Indo-Aryan (Sanskrit)? Discuss also the question of Parassapada and Attanopada in Pali, giving instances of the survival of the latter in Pali.
 - Write philological notes on eight of the following words or forms:--

palikha, Lāļa, Uruvelā, heļļhā, erikkha, kayirā, kahāpana, ella, jeyyam-āttānam, tiesa, sabbhir-eva, addhuddha, tikkhattum, asmase, gantaes, ārohitvā, bajjhati, nahāpita, culla, sukhuma, thera, kusinārā, ambe, vijju, bhiyyo.

M.A. EXAMINATION

FOURTH PAPER

Examiner-Dr. NALINAKSHA DUTTA, M.A., PH.D., D.LITT.

The questions are of equal value

Answer ANY BIX questions

1. Examine the conceptions of (a) the Buddha, (b) the Bodbisattva, in so far as they appear in Pali Buddhism. What was the special view of the Lokottarikas? What was the difference between a Buddha and a Pacceka-Buddha?

2. What light is thrown upon the life of the Buddhist community and the date of the canon by (a) the Edi as of Asoka and other inscriptions, (b) the

Thera- and Theri gathas, (c) the Kathavatthu?

3. Discuss the significance of the words dhamma, samkhāra, and anicca in early Buddhism, and indicate briefly the later developments of the same

conceptions.

4. Describe the life of an organized Buddhist establishment, including particulars concerning the buildings, dress, and routine, and giving explanations of some technical terms, such as vihāra, gandhakutī, saddhivihārin, pācittya, karmadāna, gandī.

5. What Buddhist sects are known to have had a following in Central Asia or other countries outside of India? Give some details. With what developments of Buddhism are the following connected: (a) Mahāvastu, (b) Visuadhimagga; (c) Mahāvaipulya-sūtras, (d) Avadānas, (e) Dhāroṇīs?

6. State the various causes which led to the decadence of Buddhism in India.

7. (i) Show how far Buddhism owes its greatness to foreigners both within and outside India.

(ii) Point out the usefulness of Chinese and Tibetan translations for our knowledge of Buddhism and Buddhist literature.

8 Explain how Sila, Citta, a. d Pañña comprise the whole of Buddhistic

discipline.

9. How much of the Upanisadic doctrines is traceable in ancient Buddhism. Point out the doctrine contributions, if any, made by Buddhism to the stock of original thoughts in India.

10. Give the Hinayanic and Mahayanic interpretations of Pratityasamut-

pāda and Nirvāņa.

(GROUP A)

FIFTH PAPER

Examiners -- {DR. B. C. LAW, M.A., PH.D. PROF. BENIMADHAB BARUA, M.A., D.LIT.

Only six questions are to be attempted including Questions 9 and 10 which are compulsory.

1. Show how the Book of Birth stories 'contains a record of the 15-every-day life and every day thought of the people among whom the tales were told '

15

2. Mention the Jätakas which have their parallels in the Brahmanical works and Western fables, noting the distinctive features of the Buddhist tales.

8. Discuss the relative position of the Canonical Jatakas and the Books 15 of Stories of Heaven and Hell. 4. Write a note on the ballads in the Jātakas discussing their literary 15 and historical importance. What do you understand by the term 'Bodhis: tta'? What are the 15 chief features of the Bodhisatta-idea as developed in the Jatakas? How far is this idea Mabayanic? 6. Refute or justify the theory that the Broks of Stories of Heaven 15 and Hell seem to be, on the whole two poetical offshoots of the Canonical Jātaka Book. 7. What sort of information can you gather from the Barhut Jātaka 15 labels and illustrations regarding the development of Ja'akas? 8. What is, in your opinion, the original principle of naming the 15 Jätakas? And how far can the Barbut Jätaka labels account for later deviations therefrom? 9. Explain in Pali any two of the following: 20 (a) Jippañ ca disvā dukkhitañ ca vyādhitam maten ca disvā gatam āyusemkhayam Kāsāvavattham pabbajitan ca disvā tasmā abam pabbajito mh: rājā ti. (b) Corīnam bahubud ihinam yāsu saccam sudullabham thīnam bhāvo durā ano macchassevodake gatem. Musā sāsam yathā saccam saccam tāsam yathā musā. gavo bahutinass eva omasanti varam varam. Coriyo kathinā h'etā vāļā capala akkharā, na tā kiñci na jānanti yam manussesu vācanan ti. (c) Rudam manuañam rucira ca pitthi veluriya annupanıbba ca giva vyāmamattāni ca pekkhunāui, naccena te dhitaram no dadămiti. Sace imassa kāyassa anto bāhirato sīyā dandam núna gahetván i káke sone ca váraye. Diggandho asusikāyo kuņapo ukkarūpamo nindito cakkhubhūtehi kāyo bālābhinandito. Translate into English any three of the following stanzas with 20 reference to the context, adding notes where necessary :-Adāya dantāni gajuttamassa vaggu subbe appatime pathavyā auvannarājīhi samantamodare so luddako Kāsipuram upāgami, upanesi so rājakannaya dante : nāgo hato, handa im'assa dautā ti. (b) Avāsiko hotu mahāvihāre navakammiko hotu kajangalayam Aloka sandhim divasā karotu bhisānī te brāhmaņa yo abāsi. Ye panditā atthadassā bhavanti bhāsanti te yon:so tattha kāle, kathan nu gathanam abhasitanam

attham nayeyyum kusalā janindā ti.

sobhayanti uragassa mendiram.

Campeyyakā nāgamālikā bhaginimālā atha-m-ettha Koliyā

ete dumă parinămită

(e) So agamā nagaram Indapattam oruvha cagañchi sabham Kurunam samāgame ekasatam s magge avhettha yakkho avikampamāno: ko n'idha rannam varam ābhijeti kam ābhijeyyāma varam dhanena kam anuttaram jināma ko vāpi no jeti varam dhanānam.

(Group A)

SIXTH PAPER FIRST HALF

Examiner—Prof. P. Maung Tin

[Full marks-50]

The questions are of equal value. Attempt Question 3 and TWO others.

1. 'I see him as a cultured young Brahmin in the thirties, born at or near Sagala, who had been studying since his beyhood, Brahmin-fashion, at the rising cultural town or University of Nalanda, a few hundred miles to the east of his home, near Patna.'

Examine critically this statement regarding the authorship of Milindapañha.

2. What arguments can you advance either for or against the view that

Milinda became a Buddhist monk? 3. Make a critical estimate of the Milindapanha as a contribution to the

study of Buddhism

4. Give the substance of Buddhaghosa's exposition of ācāragocara-sampanno and say what place it occupies in the Sīlaniddesa of the Visuddhimagga.

5. What do you learn from the Sīlaniddesa of the Visuddhimagga about the influence of will (cetanā) on Sīla in Buddhism?

SECOND HALF

Examiner-Mr. SAILENDRANATH MITRA, M.A.

[Full marks-50]

The questions are of equal value. Attempt Question 1 and ONE from each of Groups A and B

- 1. Explain with reference to the context any four of the following extracts, fully commenting upon the italicised words or expressions and tracing, wherever possible, the theme of the passages to other contexts, prose or verse :-
 - (a) Adi sīlam patiţţhā ca kalyāņānan ca mātukam ! pamukham sabbadhammanam tasma silam visodhaye ii Velā ca sam aram sīlam cittassa adhibhāsanam i titthan ca sabbabuddhānām, tasmā sīlam visodhave 🛚
 - (b) Yad atthi sangatam kifici bhavo ca yattha labbhati 1 sabbam anissaram etam, iti vuttam mahesina #

Na me hoti shosin ti, bhavissanti na hoti me ! samkhārā vibhavissanti, tattha kā paridevanā 🛚

- (c) Assu thannam rudhiram samsäram anomataggato saratha !
 sattänam samsaritam sarähi atthinan ca sannicayam !!
 Sara caturodadhi upanīte assuthannarudhiramhi !
 sara ekakappam atthinam sancayam Vipuleno samam !!
- (d) Anamatagge samsurato mahim Jambudipam upanitam | kolatthimattagulikā mātāpitusveva na-ppahonti || Sara timakatthiam sākbāpalāsam upanitam anamataggato | pitūsu caturangulikā ghatikā pitupitusveva nappahonti ||
- (e) Evam dhamme viyāpanne vibhinnā suddavessikā !
 puthu vibhinnā khattıyā patim bhariyā avamaññatha #
 Khattiyā brahmabandhū ca ye c'aññe gottarakkhitā |
 jātivādam nīramkatvā kāmānam vasam āgamum #
- (f) Sapadānam caramāno guttadvāro susamvuto!

 khippam pattam apūresi sampajāno patissato!!

 Sa piņdacāram caritvā nikkhamma nagarā muni |

 Paņdavam abhihāresi, ettha vāso bhavissati!!

GROUP A

- 2. 'The separate *Uddānas* or *Indices* (of the Thera-theri-gāthā) seem to be based on a receision or condition of the text different from that which now lies before us.' Justify or refute the statement by illustration from your text.
- 3. 'From some of Phammapäla's interpretations it will be seen that he had already before him a corrupt text; sometimes he has wholly misunderstood it, but generally his interpretations are correct.' Substantiate the remark by suitable examples from your text.

GROUP B

- 4. Elucidate the central idea or theme of the Brāhmaṇadhammika-sutta and show how and in what particular respects Buddhism stood in conflict with Brahmanism.
- 5. Discuss the antiquity of the Sutta-nipata, enumerating all available evidences, both external and internal.

(GROUP A)

SEVENTH PAPER

FIRST HALF

Examiner-MR. GOKULDAS DE, M.A.

: [Full marks-50]

The questions are of equal value

Attempt THREE questions only, including Question 1, which is compulsory.

- 1. Transcribe in Brāhmi character the following extracts, giving an English translation of each with notes where necessary:—
 - (a) Vedisakehi damtakarehi rupakamma katam
 - (b) Ranno siri satakanisa

āvesanisa vāsithīputasa Ānamdasa dānam.

- (c) Bhagavato Sākamunino Bodho.
- (d) Sādika sammadam turam devānam.
- (e) Bhagavato ükramti.
- 2. Write a short note on the form and significance of Jätakas as referred to in the Bharhut inscriptions.

- 3. 'The orthography, the Sandhi, the declension, the compounds, the suffixes, and the phonetic changes all combine to establish a close affinity to Pali.' Show by examples how far the above statement is applicable to the inscriptions of Bharhut and Sanchi.
- 4. Trace the influence of Buddhist literature on Bharhut inscriptions in general.
 - 5. Comment on any five of the following:-
- (a' Cakavāko Nāgarājā; (b) Sirimā devatā; (c) Idasālagūhā; (d) Jaṭila-sabhā; (e) Bhagavato dhamacakaṃ; (f) Alambusā acharā; (g) Sākamunino Bodho.

SECOND HALF

Examiner-Dr. B. M. BARUA, M.A., D.LIT.

[Full marks-50]

The figures in the margin indicate full marks.

Attempt Question 1 and TWO of the rest.

- 1. Translate any four of the following extracts into English, adding 20 explanatory notes where necessary:—
- (a) Gatıreke tu kho samvachbarem yan maya samghe upayıte badham cha me pakamte imina chu kalena amisa samana munisa Jambudinasi misa devehi.
- (b) Tedasa-vasābhisitena mamayā dhamma-mahāmātā katā te savapāsamdesu vivāpatā dhammādhithānāye chā dhammavadhiyā hidasukhāye vā dhammayutasā Yona-Kamboja-Gamdhālānām e vā pi amne Apalamtā.
- (c) Sarvata vijite mama yutā cha rājūke cha prādesike cha pamchasu pamchasu vājesu anusamvānam niyātu etāyeva athāya imāya dhammānusastiyā yathā anāya pi kammāya.
- (d) Silā-vigadabhī chā kālāpita ailā-thabhe cha usapāpite hida Bhagayam jāte ti Lummini-gāme ubalike kate atha-bhāgiye cha.
- (e) Esa me huthā dhamma-sāvā ānı sāvanayāmi dhammānusathini anusāsāmi etam jane sutu anupaţipajī sati abhyumnamisati dhamma-vadhiyā cha bādham vadhisati.
- (f) Jano tu uchāvacha-chhamdo uchāvacha-rāgo te sarvam va kāsamti ekadesam va kāsamti vipule tu pudā se yasa nāsti sayame bhāvasudhītā va katamnātā va dadhabhatitā cha nichā bādham.
- What light does the Bhābrū edict throw on the religion of Aśoka?
 Name and identify the Dhamma-pariyāyas mentioned in this edict.
- 3. Show from his edicts Aśoka's attitude towards (i) division in the Buddhist church, (ii) religions other than Buddhism.
- 4. 'The thirteenth and fourteenth "regnal years" were busy ones for Asoka, marking great advance in his spiritual development and religious policy.'

Adduce, from the edicts, proofs in justification of the above remark.

5. What explanation of the term asinava do you find in the edicts? 15 How far does its meaning agree with Buddhist asava and Jaina anhaya?

(GROUP A)

EIGHTH PAPER

FIRST HALF

(Essay)

Examiner-Mr. SAILENDRANATH MITRA, M.A.

[Full marks-50]

Write an essay on one of the following subjects :-

- (a) The Buddhist Sangha as a centre of learning and discipline.
- (b) The Constitution of Early Buddhist Sangha.
- (c) The Buddhist Church in the third century B.C., and Aśoka's relation with it.
 - (d) Idealism of Early Buddhist literature.
- (e) Early Buddhist sculpture and Buddhist literature—their interrelation and results.

SECOND HALF

(Unseen)

Examiner-Mr. Gokuldas De, M.A.

[Full marks-50]

- 1. Translate into idiomatic English any two of the following passages:--
 - (a) Ambā kapitthā panasā sālā jambū vibhetakā harītākā āmalakā assatthā padarāni ca.
 Cārū timbarukkbā c'ettha nigrodhā ca kapitthanā madhumadhukā thevanti nīce pakkā c'udumbarā.
 Pārevatā bhaveyyā ca muddikā ca madhutthikā madhum anelakam tattha sakam ādāya bhuñjare.
 Añā ettha pupphitā ambā añāe tiṭṭhanti dovita añāe āmā ca pakkā ca bhekavaṇā tadūbhayam.
 Ath'ettha heṭṭṇā puriso ambapakkāni gaṇhati āmāni c'eva pakkāni vaṇṇgandharasuttaine.
 Ath'eva me acchariyam hiṃkāro paṭibhāti maṃ devānam īva āvāso sobhati Nandanūpamo.
- (b) Tattha pāṇātipātā veramaṇī ti ādisu veramaṇī nāma virati. Sā ti-vidhā hoti, sampatta-virati samādāna-virati setughāta-virati. Tattha yo sikkhāpadāni agahetvā pi kevalam attano jātigotta-kula-padesādīni anussaritvā 'Na me idam patirūpan'ti pāṇātipātādīni na 'karoti, sampatta-vatthum pariharati, tato ārakā viramati, tausa sā virati sampatta-virati veditabbā. 'Ajjatagge jīvita-hetu pi pāṇam na hauāmīti' vā 'paṇātipāta viramāmī' ti vā 'veramaṇim samādiyāmī'ti vā evam sikkhāpadāni gaṇhantassa pana virati samādāna-viratī ti veditabbā. Ariya-sāvakānam pana magya-sampayuttā virati setu-ghāta-virati nāma. Tattha purimā dve viratiyo yam jīvitā voropanādi-vasena vitikkamitabbam jīvitindriyādi-vatthum tam ārammaņam katvā pavattanti pacchimā nibbānārammaņā va.
- (c) Assutavā kho puthujjano attanā maraņa-dhammo samāno maraņam anatīto param matam disvā attivati harāyati jiguechatu attānam yeva atisitvā. Aham pi kho 'mhi maraņadhammo maranam anatīto, ahan c' eva kho pana maraņa-dhammo maraņam anatīto param matam disvā attipeyyam harāyeyyam jiguecheyyam. Na me tam assa

paţirūpan ti. Tassa mayham bhikkhave iti paţisañcikkhato yo jivīte jivitamado so sabbaso pabiyyî ti

Tayo 'me bhikkhave madā. Katame tayo? Yobbanamado ārogyamado jīvitamado.

(GROUP B)

FIFTH PAPER

Examiners— { Mr. Ramaprasad Chaudhuri, M.A. D.Lit.

[Full marks-50]

The figures in the margin indicate full marks.

Only BIX questions are to be attempted including Question 1, which is compulsory.

- 1. Translate any two of the following extracts, adding notes where 30 necessary:--
 - (a) Katame dhammā avyākatā?

Yasmim samaye kāmāvacarassa kusalassa kammassa katattā upacitattā vipākam cakkhuvinnāņam uppannam hoti upekkhāsahagatam rūpārammaņam: tasmim samaye phasso hoti, vedanā hoti, sannā hoti, cetanā hoti, cittain hoti, upekkhā hoti, cittasta ekaggatā hoti manindriyam hoti, upekkhindriyam hoti, jivitindriyam loti: ye vā pana tasmim samaye affie pi atthi paţiccasamuppantā arūpino dhammā—ime dhammā avyākatā.

(b) Tattha katımam kayayatanam?

Yo kāyo catonnam mahābhūtānam upādāya pasādo attabhāvapariyāpanno anidassano sappaṭigho:—yena cakkhunā anidassanama sappaṭighena rūpam sanidassanam sappaṭigham passi vā rass ti vā passissati vā passe vā—cakkhum p'etam, cakkhāyatanam p'etam, cakkhumātu p'esā, cakkhundriyam p'etam, loko p'eso, dvārā p'esā, samud 'o p'eso, p·ndaram p'etam, khettam p'etam vatthum p'etam, nettam p'etam nayanam p'etam orimam tīram p'etam sunno gāmo p'eso: idam vuccati kāyāvatanam.

- (c) Kusalanti kucchitanain salanadihi atthehi kusalain. Api ca arogyatthena anava jiatthena kosallasambhütatthena ca kusalain. Yath'eva hi kacci nu bhoto kusalanti rūpakāye anaturatāya agelannena nuvādhitāya arogyatthena kusalain vuttain evam arūpa hamme ni kile-aturatāya kilesagelannassa kilesavyādhino abhāvena ārogyatthena kusalan ti veditabbam.
- 2. What is the precise connotation of the term abhidhamma employed as the title of a division of the Pali canon?
 - 8. Write explanatory notes on any three of the following terms:— 14 avijjā, vicikicchā, paññā, saddhā, dhamma. and Sankhāra.

14

14

14

- 4. Compare and contrast between the Suttanta and Abhidhamma bhājaniyas standing side by side in each of the chapters of the Vibhanga, and indicate in the light thereof the relationship between the Sutta and the Abhidhamma Pitaka as a whole.
 - . Distinguish between-
 - (a) indriya, äyatana, dhātu ;
 - (b) four avacaras;
 - (c) saddhā, saddhindriya, saddhābala.

16

16

M.A. EXAMINATION	OVE
6. "The burden of Abhidhamma is not any positive contribution to the philosophy of early Buddhism but an slytical, logical, and methodological elaboration of what a slicedy given."	14
Refute or justify this remark.	
7. Determine the relative chronological position of the Dhammasangani, the Viuhanga, and the Dhatukatha.	14
8. "Dukkaram mahārāja bhagavatā katam yam imesam arūpinam citta-cetasikānam dhammānam ekārammane vattamānam vavatthānam akkhātam: ayam pha-so, ayam vedanā, ayam saññā, ayam cetanā, idam cittan" ti. Develop the idea in the above extract with a view to indicating the possibility of psychology as a science.	14
9. Discuss the metaphysical significance of the Buddhist Door theory of sense-cognition.	14
10. What are the precise metaphysical implications of paccaya-sāmaggi is explained by Buddhaghosa?	14

(Group B)

SIXTH PAPER

Examiners - { DR. B. C. LAW, M.A., Ph.D. PROF. BENIMADHAB BARUA, M.A., D.LIT.

[Full marks-100]

The figures in the margin indicate full marks.

Only SIX questions are to be attempted, including Question 8, which is compulsory.

- 1. Explain the title Nettipakarana and show that it is a treatise on 16 the textual and exegetical methodology.
- 2. Discuss the general importance of the desună, lakkhana, parikkhāra 16 and vevacanahāras in the Nettipakarana
- 3. Distinguish between the methods of treatment followed in the 16 Abhidhammavatara and the Abhidhammautthasang ha.
- 4. State Buddhadatta's conception of Nāmarūpa. How far can this 16 conception be said to be influenced by the Sāṃkhya idea of Puruṣa and Prakriti.
 - 5. Write notes on any two of the following topics:
- (i) Citta, (ii) Cetasika, (iii) Vipākacitta, (iv) Puññavipakapaccaya.
 (v) Kankhāvitarapavisuddhi, and (vi) Maggāmaggañānadassanavisuddhi.
- 6. Who wrote the Abhidhammatthasangaha? Is there any reason to 16 disbelieve the statement that Buddhaghosa and Buddhadatta drew materials upon the same source?
 - 7. Write short notes on any two of the following:—
- (i) Suddhamanodvāravithi, (ii) Paññatti, (iii) Aniceadhamma and (iv) Arūpajhānas.
- 8. Translate the following extract into English, adding notes where 20 necessary:--

Dukkhe sññāṇam dukkhesamudeye sññānam dukkhenirodhe sññanam dukkhenirodhagāminiyāpeţipadāva sññānam pubhante sññānam aparante sññānam pubhantāparante sññānam idapa caystāpaţiccasamuppannesu dhammesu sññānam. Yam evarūpam sññānam adassanam anabhisamayo ananuhodho asambodho appativedho asallakkhanā anupalakkhanā apaccupalakkhanā asamapekkhaņā apaccakkhakammam dummejjham bālyam asampajaññam moho pamoho sammoho avijjā avijjogbo avijjayogo avijjānusayo avijjāpariyutthānam avijjālangimoho akusalamulam.

- 9. What is the difference between the 'aticcasamuppādanaya and the 16 Patthānanaya? Elucidate the dissertation on this point in the Abhidhammatthasangaha.
- 10. Show how the topics mentioned in the Upatissa Panha in the 16 Bathavinita qutta have been elaborated in the Abhidhammāvatāra and the Visuddbimagga.

(GROUP B)

SEVENTH PAPER

Examiner—Dr. Nalinaksha Datta, M.A., Ph.D., D.Litt.

[Full marks-100]

The questions are of equal value.

Answer Six questions, including Question 1.

- 1. Translate into English any two of the following passages :-
- (a) Nanu atthi devā ajaļā aneļamūgā viñňū na harthasamvācikā paţibalā subhāsitadubhā itānam attham aññatum, atthi devā Buddhe pasannā. Dhamme pasannā Samphe pasannā. Bu dham Bhagavantam payirūpāsanti, Buddham Bhagavantam pañham pucchanti, Birthena Bhagavatā nañne vissajite attamanā honti, atthi devā na kammāvar nena samannāgatā na kilesāvaraņena samannāgatā na vipākāvaraņena samannāgatā saddhā chandikā paññāvanto bhabbā nayāmam okkamitum kusalesu dhammesu sammatam, atthi devā na mātughātakā na pitughātakā na arahantaghātakā na ruhiruppādakā na Samphabbelakā, atthi devā na sāņātipātino na a tunādāyino na kāmesu micchācārino na musāvādino na pisunāvācā na pharusāvācā na samphappalāpino na abhijihāluno abyāpannacittā sammādīṭṭhikāti? Āmantā.
 - (b) Tassa sammāvimuttassa santacirtassa bhikkhuno, kutassa puticayo natthi karaņīyam na vijati. Selo yathā ekaghano vātena na samīrati, evam rūpā rasā saddā gandhā phassā ca kevalā. Ithā Dhammā anitthā ca nappavedhenti tādino, Thitam cittam vippamutram vayanca assānupassatī ti.
- (c) Parchājātā appaţighā khandhā purejātassa imassa appaţighassa kāyassa parchājātā appaţighassa parchājātā appaţighā khandhā purejātassa imassa sappaţighassa kāyassa, parchājātā appaţighā khandhā purejātass' imassa sappaţighassa appaţighassa ca kāyassa parchājātā-parcayena parcayo.
- (d) Sahajātā, nānākhaņikā. S.h jātā anidassanā cetanā sampayuttakānam khandhānam anidassanānam cittasamutthānanca rūpānam kammapaccayena paccayo. Nānākhaņikā anidassanā cetanā vipākānam anidassanānam khandhānam anidassanānana katattā rūjānam kamma paccayena paccayo.
 - 2. Write a commentary on the following:-

Samay svimutto Arahā vītarāgo vītadoso vītamol o katekaraņīvo obitabhāro anuppattasadattho parikkitīņabhavasaññolano sammadaññā vimutto ukkhitapaligho samkinņup ir kho abbuļhesiko viraggaļo ario panuaddhajo pannabhāro visaññutto suvijitavijaya, dukk am tassa pariññā am, samudayo pahīno, nirodho sacchikato, margo, bhāvito, abhiñūeyyam abbinīnātam, pariñīnayyam pariññātam, pahātabbam pahīnam, bhāvitabbam bhāvitam, sacchikātabbam sacchikatam, parihāyati samayavimutto Arahā arahattā ti? Amantā.

- '3. When and on what occasion and by whom was the Kathāvatthu composed? Do you find any objection in taking the Kathāvatthu as a canonical book?
- 4. Explain the Vajjiputtaka conception of soul and show how it differs from that of the Theravadius.
- 5. 'An arhat falls away from arbathood,' Develop the idea of the thesis, showing its bearing on the history of Buddhism.
- 6. (i) What is the importance of the Duka-Paṭṭḥāna as a Abbhidhamma work?
- (ii) 'The sim of the Duka-Patthans seems to have been more a series of exercises in a logic of terms and relations than any attempt to enunciate metaphysical propositions' Criticise this remark, citing evidences from your text.
 - 7. Explain fully in Pali :-
- 'Asavam dhammam paticca āsavo ca no-āsavo ca dhammā uppajjanti hetupaccayā.'
 - 8. Write explanatory notes on the following:-
- (a) Adhipatipaceavo; (b) Anantarapaceayo; (c) Samanantarapaceayo; (d) Kammapaceayo; (e) Ahārapaceayo; (f) Indriyapaceayo; (g) Jhānapaceayo; (h) Maggapaceayo.
- 9. What is the line of argument followed in the Kāthavatthu to establish a thesis? Give a typical instance.

(GROUP B)

EIGHTH PAPER

FIRST HALF

(Essay)

Examiner-Dr. Nalinaksha Datta, M.A., Ph.D., D.Litt.

[Full marks-50]

Write an essay on one of the following subjects:-

- (a) The nature and the contents of the seven Abhidhamma works, and the method of exposition adopted in them.
 - (b) The mental processes as analysed in the Abhidhamma works.
- (c) The value of the abhidhamma works as glosses on the fundamental principles of Buddhiam inculcated in the Sūtras.
- (d) The contributions of Burms and Ceylon to the Abhidhamms literature.

SECOND HALF

(TRANSLATION)

Examiner-MR. GOKULDAS DE, M.A.

[Full marks-50]

Translate any three of the following extracts into English:-

(a) Mahābhūtasāmafinato ti. Erāni hi yathā māyākāro amaņim yeva udakam maņim katvā das-eti asuvaņuam yeva leddum suvaņuam katvā daseeti, yathā ca sayam n'eva yakkho na pakkhi samāno yakkhabhāvam pi pakkhibhāvam pi das-eti evam evam savam anīlān' eva hutvā mīlam upādārūpam dassenti at ītāni alohitāni anodātān' eva hutvā odātam upādārūpam dassentī ti māyākāramahābhūtasāmanfiato mahābhūtāni. Yathā ca yakkhādīni mahābhūtāni yam ganhanti n'eva tesam tassa anto na bahitthānam upalabbhanti na ca tam nissāya na titthanti evam evam etāni pi n'eva aññamaññassa anto na bahi thitāni hutvā upalabbhanti na ca aññamaññam nissāya titthanti ti ācinteyyaṭṭbānatāya yakkhādimahābhūtasāmaññato pi mahābhūtāni.

- (b) So hi puthūnam nānappakārakānam kilesādīnam jananādīhi pi kāraņehi puthujjano. Yath'āha: puthunānākilese jānentī ti puthujjanā, puthuavibatasakkāyadiţthikā ti puthujjanā, puthu-nānāsatthārāṇam mukhullokakā ti puthujjanā, puthusal bayatīhi avuţthitā ti puthujjanā, puthu-nānāhisankhāre abhisankharotī ti puthujjanā, puthu-nānā-oghehi vuyhanti...pe.....puthu-nānā santāpehi santappantī ti puthujjanā, puthu-nānāpariṭhāhebi pariḍaynantī ti puthujjanā. Puthu-panācahi nīvaraņehi āvaṭā nivutā ovutāpihitā paṭiechannā paṭikujjitā ti puthujjanā, putbūnam vā gaṇanapatham atītānam ariyadhammapara mnukhānam nīcadhammasamācārānam janānam antogadhattā ti pi puthujjanā.
 - (c) Pindāya Kosalam puram pāvisi aggapuggalo I anukampako purebhattam tanhanighatano muni II Purisassa vatamsako [hatthe] sabi apupphehi 'lamkato ! so addasāsi Sambuddham bhikkhusamghapurakkhutam # Pavisantām rājamagge devamanussapūjitam I hattho cittam pasädetvä Sambuddham upasamkami # So [tam] vatamsakam surabhim vannavantam manoramam ! Sambuddhass' upanāmesi pasanno sehi pānihi ! Tato aggisikhā vannā Buddhassa lapanantarā I sahassaramsi vijjuriva okkā nikkhami ānanā II Padakkhınam karitvana sese adiccabandhuno ! tikkhattum parıvattetvä muddhan' antaradhāyathā ti # Idam disyan acchariyam abbhutam lomahamsanam I ekamsam civaram katvā Anando etad abravi # Ko hetu sitakammāya byākarohi mahāmune i dhammāloko bhavissati, kankhā vitara no mune #
- (d) Katamo ca puggalo uguhaţitaññū. Yassa puggalassa sahu udāhaṭavelāya dhammābhisamayo hoti, ayam vuccati puggalo uguhaṭitaññū. Katamo ca puggalo vipacitaññu. Yassa puggalassa samkhittena bhāsitassa vitthārena atthe vibhajiyamāne dhammābhisamayo hoti ayam vuccati puggalo vipacitaññu. Katamo ca puggalo neyyo Yassa puggalassa uddesato paripucchato yonisomanasi-karoto kalyāṇamitte sevato bhajato payirupāsato anupubbena dhammābhisamayo hoti, ayam vuccati puggalo neyyo ti.

(GROUP C)

FIFTH PAPER

FIRST HALF

Examiner-Mr. CHARANDAS CHATTERJEE, M.A.

[Full marks -50]

The figures in the margin indicate full marks.

Answer Question 1 and ANY TWO of the rest.

- 1. Translate any one of the following extracts into English :-
 - (a) Hatthassatharukammassa kusalo katupäsano so Gämanī rājasuto Mal-āgāme vasi tadā. Rājā rājasutam Ti-sam Dīghavāpimhi vāsayi ārakkhitum janapadam sampannabalavāhanam.

18:

Kumāro Gāmanī kāle sampassanto balam sakam "yujjhissam Damileti" ti pitu ranno kathapayi. Rājā tam anurakkhanto 'oragangam alam'' iti vāresi, yāvatatiyam so tatheva kathāpayi. "Pitā me puriso honto nevam vakkhati, ten'-idam pilandhatu" ti pesesi itthalamkaram assa so Rājāha tassa kujjhitvā : "karotha hemasankhalim, tāya nam bandhayissāmi, nānnathā rakkbiyo hi so". Palāyitvāna Malayam kujjhitvā pituno agā. duțthattă yeva pitari ahu tam Dutthagamanim.

- (b) Yuddhe dane ca surena surina ratanattaye pasannāma acittena sās inu jotanatthinā rannā katannunā teva thupakārāpanādito vihāramahanantāni pūjetum ratanattayam pariccattadhanān'etcha anagghāni vimunciya sesāni honti ekāya ūnavisatikotīyo Bhogā dasaddhavidhadosadūsitā pi paññāvisesasahitehi janehi pattā hont'eva pañcagunavogagahitasārā: iccassa săragahane marimă yateyya ti.
- 2. 'The Ceylon Chronicles would not suffer in comparison with the best of the Chronicles, even though so considerably later in date, written in England or in France.' (Buddhist India.) Critically examine this remark of Prof. Rhys Davids in the light of the sources from which the author of the Mahavamsa drew his material.
- Describe briefly the various measures adopted by the emperor 16 Aśoka Maurya for the propagation of Buddhism in Ceylon.
- Sketch the history of the reign of Dutthagamani Abhaya with 16 special reference to his campaign against the Damilas.
- 5. Recount the services rendered by Vattagamani Abhaya to the 16 cause of Buddhism in Ceylon.

SECOND HALF

Examiner—DR. NALINAKSHA DATTA, M.A., PH.D., D.LITT.

[Full marks-50]

The questions are of equal value. Answer ANY THREE questions.

1. Translate into English :-

sudhammasabhāyam sannipatitvā tam pakkosetvā Mahātberā ca ovadimsu. Tesu pana mahātheresu eko thero bhūpālassa samgharañño ca mukham oloketvā bhagavato pana sammāsambuddhassa mukham analoketvā Munindaghosatheram evam āha: Idāni āvuso imasmim Marammaratthe sabbe pi bhikkhū bhūpālassa samgharsñño ca āņam anuvattitvā ekamsikā yeva ahesum. Tvam yeva eko saddhim pari-āya į ārupana vattam carītvā nisīdasi. Kasuā pana tvam mänathaddho hutvā idisam anācāsam avijahitvā titthasī ti.

2. "The Sasanaverusa is highly important for the ecclesiastical history of Ceylon." Justify this remark.

- 3. Name the nine places, to which missionaries were despatched by Moggaliputta Tiesa, and show how far the author of the Sasanavamsa is right in identifying the places.
 - 4. Write biographical notes about four of the following:

(i) Pannāsāmi; (ii) Anuruddharājā; (iii) Chapada thera; Saddhammasiri; and (v) Disāpāmokkha ācariya.

5. "Pubbe kira Arimaddanagare mātugāmā pi gandham ngganhimau." (Sasanavamsa, p. 78.) Develop this statement.

(GROUP C)

SIXTH PAPER

Examiner—{PROF. D. R. BHANDARKAR, M.A., Ph.D. BENIMADHAB BARUA, M.A., D.LIT.

[Full marks-100]

The figures in the margin indicate full marks.

Attempt FIVE questions only, including Question 1 which is compulsory.

- 1, (a) Athavashābhisitash¹ Devānampiyasha Piyashine lājine Kaligyā vijitā. Diyadhamāte pānashatusahase yetaphā apavudhe satasahasamāte tata hate bahutāvamtake vā mate.
- (b) Ayam dhammalipī Devānampriyena Privadasinā rāñā lekhāpitā asti eva samkhirena asti majhamena asti vistatena. Na cha sarvam sarvata ghaţitam. Mahālake hi vijitam bahu ca lokhitam likhāpayisam cheva.
- (c) Ava-ite-pi-cha me āvuti: bamdhana-badhānam munisānam patavadhānam timni divasām me yote dimne nātikā va kāni nijhapayisamti jivitāye tānam nāsamtam vā nijhāpayitā dānam dāhamti pālatikam.
- (d) Adhikāni adhatiyāni vasām ya hakam upāsake no tu kho bādham pakamte husam ekam samvachharam sātireke tu kho samvachharam yam mayā samghe upayīte bādham cha me pakamte. Iminā cu kālena amisā samānā munisā Jambudīpasi misā devehi.
- (i) Transcribe the extract (a) or (b) in Asokan Brāhmī or Kharoshthī.

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- (ii) Translate ony two of the above extracts, adding short explanatory notes and bringing out their precise historical bearings.
- (iii) Rewrite the extract (c) in Pali.
 (iv) What light is thrown by the extract (c) on the Indian judicial system of the day?
- 2. Write short explanatory and critical notes on any four of the following:—
 - (a) Rājā dasavasābhisito samto ayāya Sambodhim. Tenesā dhammayātā.
 - (b) Nathi cā șe janapade yatā natht tme nikāyā ānamtā Yoneshu.
 - (c) Dhammavadhi vadhitā duvehi yeva ākālehi: dhammaniyamena cha nijhatiyā cha.
 - (d) Deravutike hosamı etaye athaye.
 - '(e) Silāvigadabhīchā kālāpitu silāthabhe cha usapāpite.
 - (f) Iyam ca savane savapite vyūthena 256 (200 50 6).
- 3. What is in your opinion the right construction of the text of the Piprawah Vase inscription?
- 4. Write geographical notes on the places and peoples mentioned in R. E. XIII.
- 5. How far can you regard P. E. VII as a mere resumé of the edicts previously published by Asoka?
- 6. What information can you gather f.om your inscriptional texts regarding the popular cults of Iudia?
- 7. Draw up a picture of the vastness of Asoka's empire to ether with its internal divisions and outlying frontages in the light of the data yielded by the inscriptions and legends of Asoka.
- 8. 'While Hinduism forms a natural social background, Buddhism represents in essence but a dynamic force of Hinduism.'

Develop this idea as far as you can with the aid of the main steachings and principles of Asoka's Dhamms.

(GROUP C)

SEVENTH PAPER

FIRST HALF

Examiner—Dr. H. C. RAYCHAUDHURI, M.A., Ph.D.

[Full marks-50]

The questions are of equal value.

Not more than THREE questions to be attempted

- 1. Comment on the following passages: -
 - (a) Sat kāvya śrī virodhān budhagunita gunajnāhatāneva kritvā
- (b) Sarva prithvi vijaya janutodaya vyāpta nikhilāvani-talām kirtimitastridašapati bhavana gamanā vāpta lalita sukha vicharaņāmāchakshāņa iva bhuvobāhur ayamuchchiritah stambhah.

(c) Jitamiti paritoshān mātaram sāsranetrām hataripuriva Krishņo

Devakîmabhyopetah.

- (d) Bhaktānurakto nrivišeshayuktah Sarvopadhābhišcha višuddhabuddhih.
- 2. What light do the Gupta inscriptions throw on the relative position of Saivism, Vaishnavism, and Buddhism in the fourth and fifth centuries A. D.?

8. What information do you gather from the inscriptions you have studied

about-

- (a) the extent of the Gupta Empire, and
- (b) the mythological conceptions of the Brahmanical Hindus and the Jains?
- 4. Name some famous poets mentioned in the Gupta inscriptions and piece-together the information about their personal history that may be gleaned from those records
 - 5. Write notes on :-

Garutmadanka, Dînāra, Svāmi Mahāsena, Goptri, Palâsinî, Kakubhagrāma, Antarvedī, and Uparika.

SECOND HALF

Examiner-Prof. Benimadhab Barua, M.A., D.Lit.

The figures in the margin indicate full marks.

THREE questions are to be answered, including Question 1 which is compulsory.

- 1. Comment on any four of the following extracts, pointing out the context and precise historical bearing of each:—
- (a) Dutiye ca vase acitayitā Sātakanim pachimadisam haya-gajanara-radha bahulam damdam pathāpayati.
- (b. Paṃcome ca dāni vase Naṃdarāja-tivasa-sata-oghāṭitaṃ Tanasuliya-vāṭā panāḍiṇı nagaraṃ pavesayati
- (c) Bhaţārakā aṃñatiyā ca gatosmim varṣaratum Mālayehi rudham Utamabhādram mocayitum ca Mālayā pranāden'eva apayātā.
- (d) Raño Vāsithiputasa Siri-Pulumāyisa savichare ekunavīse 19...
 rājaraño Gotamiputasa Himavata-Meru-Madıra-pavata-sama-sārasa Asika-Asaka-Mulaku Suratha-Kukur-Āparaņta-Anupa-Vidabha Ākaravati-rājasa.
- (e) Vase 42 Vesäkhamäse räño Kshaharātasa kshatrapasa-Nahapānasa jāmātarā Dinikaputrena Ushovadātena samghasa cātudisasa imam lenom niyātitam.

- (f) Govadhane amacasa Sāmakasa deyo rājānito raño Gotamiputasa Satakanisa mahadeviya ca jivasutaya rajama-tuya vacanena.
- 2. Write short explanatory and critical notes on any four of the following :-

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(a) Tatiye Kalimgarājavamse purisayuge. (b) Māgadham ca rājānam Bahasatimitam. (c) Nikāyena Bhadāyaniyehi.

- (d) Akshayanivī prayuktā. (e) Rāma-Kesav-Ājuna Bhīmasena-tula-parākamasa.
- 3. What are the chronological data yielded by the inscriptions of the reign of the Kushana kings, and how far do these enable you to fix the date of Kanishka?

4. What light is thrown by the inscriptions of Khāravela and the Kahaharata, Satavahana, and Kushana kings on the development of the

religious art and architecture of the Jains and Buddhists?

5. 'The warrior-like spirit of Khāravela and his bold undertaking of military campaigns all over India clearly prove that militarism was in full vigour in the country in spite of Asoka's advocacy of the ideal of conquest by the Dhamma.

Refute or justify this remark.

EIGHTH PAPER

FIRST HALF

Examiner-Dr. P. C. BAGCHI, M.A., D. LITT.

[Full marks-50]

The questions are of equal value.

Only THREE questions are to be answered.

1. Discuss the importance of the Pali Buddhist literature as a source of the ancient geography of India.

2. Name and identify the principal places in Northern India that are

associated with the life of the Buddha.

3. Discuss the importance of Gandhara as a centre of Buddhism.

4. How did the Chinese travellers define the boundaries of the different divisions of India? How far was their definition influenced by the study of the then current Buddhist literature?

5. Write notes on the following and bring out their importance in the

history of Buddhism :-

Mo-lo-kiu-cha, Kien-chi-pu-lo, Sankasya, Ayodhya, Pundravardhana.

SECOND HALF

Examiner-DR. B. C. LAW, M.A., PH.D.

[Full marks-50]

Write an essay on any one of the following subjects:-

(a) Magnificence of Asoka's architectural achievements.
(b) Asoka's part in the propagation of Buddhism.
(c) Buddhist Councils.

(d) Geographical data from the old Brahmi Inscriptions in the Udayagiri and Khandagiri caves.

(e) State of civilisation at the time of the Imperial Guptas.

(GROUP D)
FIFTH PAPER
FIRST HALE

Examiner-Dr. Nalinaksha Datta, M.A., Ph.D., D.LITT.

[Full marks-50]

The questions are of equal value

Answer Question I and ANY TWO of the rest.

- 1. Translate into English any two of the following passages:-
- (a) एवं प्रमुखेद्वांदशिर्मिक्षुसहस्तेः सार्द्धं द्वातिंशता च बोधिसस्वसहस्तेः सर्वेरेकजातिप्रतिबद्धेः सर्वबोधिसस्वपारमितानिजातैः सर्वबोधिसस्वाभिज्ञाविक्रीहितैः सर्वबोधिसस्वधारणीप्रतिभानप्रतिख्ड्येः सर्वबोधिसस्वधारणीप्रतिक्र्येः सर्वबोधिसस्वधारणीप्रतिक्रुयेः सर्वबोधिसस्वप्रतिसम्यक्रतिक्रतेः सर्वबोधिसस्वसमाधिविद्यान्मासैः सर्वबोधिसस्वविद्यानिक्रितान्मासैः सर्वबोधिसस्वविद्यानिक्रितान्मासैः सर्वबोधिसस्वविद्यानिक्रितान्मासैः सर्वबोधिसस्वविद्यानिक्षित्रेः सर्वबोधिसस्व-भूमिपरिपूणैः।
- (b) तस्मिन्महाविमाने सुखोपविष्टस द्वातिशस्त्रप्रिसहस्तप्रतिसंस्थिते वितर्दि निय्हतोरणगवाक्षक्र्यागारप्रासादतछसमलंकृते उच्छित्रछसध्वजपटाकरस-किङ्किनीजाछवितानवितते मान्दारवमहामान्दारवपुष्पसंस्तरणसंस्तृते अप्सरसः कोटीनियुतशतसहस्त्रसंगीतिसंप्रचछिते अतिमुक्तकचम्पकपाटछकोविदारमुचिछिन्द-महामुचिछिन्दाशोकन्यप्रोधितन्दुकसनकणि कारकेशरसाछरस्तवृक्षोपशोभिते हेमजाछ-संच्छ्र सुखोपविष्टस्य तस्मिन्महाधर्मसांकथ्ये प्रषृत्ते तेम्यश्चतुरशीतिम्यस्त्र्यंसंगीतिनसहस्त्रनिन्यस्त्रम्यां वोधिसस्वस्य पूर्वशुभकर्मोपचयेनेमाः संचोदनागाथा निश्चरन्ति स्मा
 - (c) जातस्य तस्य गुणसागरसागरस्य ज्ञात्वा सुरेश्वरमञ्दू ब्रूवते उद्ग्रः । यस्या सदुर्णं भश्रवो बहुकल्पकोट्या हन्तेथ तं ब्रजम प्जयितुं मुनीन्द्रम् ॥ परिपूर्णद्वादशसहस्र मरुद्विशुद्धा मणिरक्षचूड्समलंकृत ह्यंबन्नः । कपिलाह्मयं पुरवरं समुपेत्य शीव्रं द्वारि स्थिता नरपतेः सुविक्म्बचूड्गः ॥ ते द्वारपाळमवदम् सुमनोज्ञघोषाः प्रतिवेद्यस्य नृपते भवनं प्रविद्य । दौवारिको वचन शुत्व गृहं प्रविद्यः प्रह्वकृताञ्जलिपुटो नृपतिं बभावे ॥

- 2. Explain fully, with reference to the context, any two of the following: Slokas:-
 - (a) भग्ना कुतीर्थिकगणा विपरीतदृष्टिः
 भवरागवन्धननिमग्नस्थिता भवाग्रे ।
 हेतु प्रतीत्य भव ग्रून्य शुणित्व धर्मा
 सिंहस्य कोष्टकगणैव पठायिनास्ते ॥
 - (b) यथा च ज्वलनः शान्तः सर्वा नग्रश्च विस्थिताः । सूक्ष्मं च कम्पते भूभिः भविता तस्वदर्शकः ॥
 - (r) न अस्ति सर्वसस्त्वकायि भुक्तु यो जरेय तं अन्यस भूरि बोधिसस्त ब्रह्मकल्पसंनिमे । अनेककल्प पुण्यतेज ओजविन्दुसंस्थितो भुजित्व सस्त्व कायचित्त ज्ञानशुद्ध गण्डिख् ॥
- 3. Summarise the *Dharmālokaparivarta*, and show that there is in its mixture of Hīnayānic and Manāyānic doctrines.
- 4. Show that the Lalitavistara is a production of the period of transition from Hinayana to Mahayana.
- 5. (i) Comment on the characteristics of the language of the Gathas of the Lalitavistara.
- (ii) What is your opinion about the relation of Pāli to the language of the Gāthās?

SECOND HALF

Examiner-DR. AMARESWAR THAKUR, M.A., PH.D.

The figures in the margin indicate full marks
inswer three questions, of which Question 5 must be one.

- 1. "The Buddha-carita will tell us little new about Buddhism and its 10" history, but it is full of information for those who are interested in the history of Sanskrit literature." Explain.
- 2. Write a clear note on the different versions of the Buddha-carita. 10 Name and classify Asvaghosa's works.
 - Explain in Sanskrit or in Pali either of the following slokas:— 10
 - (a) हतत्विषोऽन्याः शिथिछात्मबाहवः श्चियो विषादेन विचेतना इव । न चुक्रुशुर्नाश्च जहुनं शश्वसु न चेतना उक्षिसिता इव स्थिताः ॥
 - (b) अय मेरुगुरुग् हैं बभावे यदि नास्ति क्रम एव नासि वार्चेः । बारणाज्यस्मेन दह्यमाना-बाहि निश्चिक्तमित्रं क्षमं ग्रहीतम् ॥

- 4. Give the substance of Arada's discourse to Siddhartha. Why did 10 it not appeal to the latter?
 - 5. Translate into English any six of the following :-

(a) तस्तात् प्रमाणं न वयो न काछः

कश्चित् स्वचिष्ठे प्रयमुपैति होके। राज्ञामृषीणाञ्च हितानि सानि

कृतानि पुत्सेरकृतानि प्रवेंः॥

- (ð) तस्मिंस्तथा भूमिपतौ प्रवृत्ते मृत्याश्च पौराश्च तथैव चेरुः । शमात्मके चेतसि विप्रसन्ते प्रयुक्तयोगस्य यथेन्द्रियाणि ॥
- (c) स्थूछोदरः श्वासचळच्छरीरः स्नस्तांसबाहुः क्रश्नपाण्डुगालः । अस्त्रेति वाचं करुणं बुवाणः परं समाश्चिष्य नरः क एषः ॥
- (d) ततः पुरोद्यानगतां जनश्चियं निरीक्ष्य सायं प्रतिसंहृतां पुनः । अनिस्यतां सर्घ्यंगतां विचिन्तयन् विवेश धिष्ण्यं श्चितिपालकासमजः॥
- (e) गगनं खगवद्गते च तिसान् नृवरः संजह्न्षे विसिसाये च । उपक्रम्य तत्रश्च धर्मसंज्ञामभिनिर्याणविधौ मतिं चकार ॥
- (f) ततसाया भक्ति राज्यनिःस्पृहे

 तपोवनं याति विवर्णवासिस ।

 भुजौ समुन्धिप्य ततः स वाजिभु
 न्द्रशं विचुकोश पपात च क्षितौ ॥
- (9) इत्येवमुक्ते स तपस्विमध्ये तपस्विमुख्येन मनीविमुख्यः । भवमणाशाय कृतप्रतिज्ञः स्वं भावमन्तर्गतमाचचक्षे ॥
- (A) अनार्यमस्निग्धमिसकर्म में नृप्रांस कृत्वा किमिहाच होदिषि । नियच्छ वाष्पं भव तुष्टमानसो न संवदस्यश्च च तच्च कर्म ते ॥
- (i) एवं च ते निश्चयमेतु बुद्धिरं हा विविश्नं विविधप्रचारम् । सन्तापहेतुनं सुतो न बन्धुरज्ञाननैमित्तिक एव तापः॥
- (j) ततस्त्रदानीं गजराजविकसः पद्दः के स्टुल्लीन बोधितः। सहासनेरागतबोधिनिक्षयो

जगाद काको भुजगोत्तमः स्तुतिम् ॥

(GROUP D)

SIXTH PAPER

Examiner-Dr. Nalinaksha Dutta, M.A., Ph.D., D.Litt.

[Full marks-100]

The questions are of equal value

Answer ANY BIX questions

- 1. State the reasons given in the *Vinnsikā* to refute the arguments put forward to prove the existence of atoms (paramāņu).
- 2. What is, according to Nāgārjuna, the proper interpretation of the doctrine of Prātītya-samutpāda? Support your answer by one or two arguments of Nāgārjuna.
- 3. Summarise the arguments put forward by Nāgārjuna against the Vaibhāṣikas, the Sautrāntikas, and the Yogācāras to disprove their conceptions of Nirvāna.
 - 4. (i) Explain the relation of Gotras to Yanas, according to the Lankavatara.
- (ii) Is Mahāyāna the exact equivalent of Bodhisattvayāna? Did all the Mahāyānic schools agree to the principle that Mahāyāna was the unique vehicle of Nirvāna?
- 5. Explain fully the Parikalpita, Paratantra, and Parinispanna truths of the Yogācāras.

Or,

Give the substance of the chapter, in the Lankāvatāra, on the eating of meat by the Buddhists, and explain the position of the early Buddhist bhikşus concerning the use of meat.

- 6. Trace the evolution of the Käya conceptions among the Mahäyänists.
- 7. (i) Ascertain the times of composition of the Madhyamaka-Kārikā and the Laūkāvatāra.
 - (ii) What do you know of Buddhapālita, Candrakīrti, and Maitreyanātha?
 - 8. Explain any four of the following:-
 - (i) Kleśāvaraņa and Jneyāvaraņa;
 - (ii) Apratisthita Nirvana;
 - (iii) Alayavijnana;
 - (iv) Bhūtakoti;
 - (v) Prat: samkhyā-nirodha and Apratisamkhyā-nirodha;
 - (vi) Triyana.
- 9. Translate into English any two of the following passages with explanatory notes:
 - (a) देशादिनियमः सिद्धः स्वप्नवत् प्रेतवत् पुनः ।
 संतानानियमः सर्वैः प्यनचादिवर्धाने ॥
 स्वप्नोपघातवत् कृत्यक्रिया नरकवत् पुनः ।
 सर्वै नरकपालादिवर्धने तैश्व बाधने ॥
 - (b) सिद्धार्थः शाक्यतनयो विष्णुज्यांसो महेश्वरः । एवमाधानि तीथ्यांनि निवृति मे भविष्यति ॥ एवं मया श्रुताविज्यः शाक्यसिंहसा देशना । इतिहासं पुरावृत्तं ज्यासस्यतद् भविष्यति ॥

- विष्णुमें हे श्वरक्षापि सृष्टिस्वं देशयिष्यति । एवं मे निर्कृते पश्चादेवमाश्चं भविष्यति ॥ माता च मे वसुमितः पिता विष्रः प्रजापितः । कात्यायनसगोसोऽहं नाम्ना वे विरजो जिनः ॥
- (०) अवाय (त्रक्षराः सर्वश्चम्याः शान्तादिनिर्मं छाः । य एवं जानति धर्मान् कुमारो बुद्ध सोष्यते ॥ तथागतो हि प्रतिबिम्बभूतः कुशाल्ख धर्मस्य अनास्त्रवस्य । नेवास तथता न तथागतो (स्ति बिम्बं च संहरूयति सर्वे छोके ॥
- 10. Explain fully any two of the following ślokas:-
 - (a) चत्वारः प्रत्यया हेतुश्चालम्बनमनन्तरम् । तथैवाधिपतेयं च प्रत्ययो नास्ति पञ्चमः॥
 - (b) ब्यवहारमनाश्रित्य परमार्थी न देश्यते । परमार्थमनागम्य निर्वाणं नाधिगम्यते ॥
 - (c) प्वं विज्ञानवीजोऽयं स्पन्दते दृष्टिगोचरे । बाला गृह्यन्ति जायन्तं तिमिरं तैमिरा यथा ॥
 - (d) पञ्चानां मूलविज्ञाने यथाप्रस्ययमुद्भवः । विज्ञानानां सह न वा तरङ्गाणां यथाँ जले ॥

(GROUP D)

SEVENTH PAPER

Examiner-MR. SATKARI MUKHERJEE, M.A.

[Full marks-100]

The questions are of equal value

Answer ANY BIX questions

1. Fully elucidate the contrast between the nirvikalpakajnāna and the savikalpakajnāna according to the Nyāyabindu, and show why the latter is regarded as invalid.

2. Give a critical estimate of the definition of Pratyakes as proposed by Dharmakirti in its relation to the definition of Dignaga. Is the adjective abhrents' absolutely necessary?

- 3. Criticise the definition of the terms, 'Vaibhāṣika', 'Sautrāntika', 'Yogācāra', and 'Madhyamika' as given in the Sarvadarsanasangraha. What do you think to be the proper definition of these terms?
- 4. Write a short essay on the conception of 'Manovijaāna' showing its place and value in the scheme of Dharmakīrti's epistemology.
- 5. Fully elucidate the significance of the following text of the Nyāyabindu: 'tad evo pratyakṣam jāānam pr māṇapholam, arthapratītirūpatvāt. arthasārūpyam asya pramāṇam tadvasād arthapratītisiddher iti.'
- 6. Evaluate the definition of reality as arthakriyāsāmar!hya and show how this definition leads by a logical necessity to the conception of momentariness of all existence in the light of what you have read about it in the Sarvadarśanasaṅgraha.
- 7. Mark the contrast between the Nyāyabindu and the orthodox Nyāya so far as the conception of the validity and constitution of anumāna are concerned.
- 8. Comment on the text quoted in the Sarvadarsanasangraha: 'utpādād vā tathāgatānām anutpādād vā sthitai 'vai 'sā dharmānām dharmatā.'
 - 9. Write notes on some of the recent publications on Diguaga's logic.

Or,

Give a short account of the development of the school of Dignaga's logic.

10. Comment on the line of Dharmakīrti quoted in the Sarvadarśanasangraha and fully bring out its philosophical implications: 'sahopalambhaniyamād abhedo nīlataddhiyoḥ.'

(GROUP D)

EIGHTH PAPER

FIRST HALF

Examiner-Dr. N. P. CHARRABARTI, M.A., Ph.D.

The figures in the margin indicate full marks

1. (a) Disjoin the sandhi in five of the following:-

कुत आगतः, पुना रोगी, वाग्धि, यथिः, नायकः, and तांष्ट्रहान् ।

Б

5

(b) Decline any five of the following bases:-

एतर, accusative singular or dual in neuter; युष्पर, accusative or dative singular; सुपार, nominative plural; दिश्, locative plural; चाधिस्, instrumental plural; and वन्, accusative plural.

ic) Conjugate any five :-

बन् or खिर्, present, third person singular; या or द्यू, imperfect, first person plural; ख or स, perfect, third person plural; सी or दा, aorist, third person singular; जी or है, imperfect, second person singular.

(d) Name and expound the samasa in any four :-

कृताकृतम्, गृहागतः, युधिष्ठिरः, राजान्तरम्, कापुरुषः, विकोचनः,

(e) Account for the case-ending in five of the words underlined :— असेर्द्रांड्यति ; वेदवत्ताय रोचते मोदकः ; प्राममञ्चास्ते ; मातुः स्मरति ; वेदयान् घातुको हरिः ; रजकस वक्षं ददाति ; गोषु दुसमानास् गतः । (f) Explain, with examples, at least four different uses of the Potential in Sanskrit. (g) Justify the use of परकेपद or चालनेपद in four of the following sentences :— साधु विक्रमते वाजी ; नदीकुळं ब्याददाति ; शास्त्रे नयते ; शतं	5 6 4
विनयते ; अध्ययनात् पराजयते ; पीठाडुत्तिष्ठति ।	4
(h) Derive and give the derivative meaning of any four :— मेघाविन , जनता, गड्यं, जिघस्मति, देदीप्यते, and यियासः ।	7
મંત્રાવન, ખનતા, ગાંચ, ખાંચતાત, વૃદાવ્યત, and ાચવાલું ા (i) Re-write after correcting all the errors in the following :—	10
वानरराजा सुमीवो सुगृहीतनामस्य दाशरथिनः मित्रोऽभूत् । रामसस्य	
साहास्येन समरे जयं छंक्रञ्वा श्रीमिव सीतां सह अयोज्यामप्रत्यागच्छत् ।	
Allers of the and Americal Milital Cities of the Allerd Allers of the	
SECOND HALF	
(Essay)	
Examiner-Mr. Sailendranath Mitra, M.A.	
[Full marks-50]	
Write an essay on one of the following subjects:— (i) The relation between Hinsyans and Mahayans. (ii) The difference, if any, between Sunyata of Nagarjuna and Brahman of Sankars. (iii) The parikalpits, paratantrs, and parinispanna aspects of things according to the Yogacars school. (iv) The conceptions of Tathata according to the four schools: Theravada, Sarvastivada, Madhamaka, and Yogacars. (v) The line of argument followed by Nagarjuna in his attempt to setablish his theses.	
ARABIC	5 .
FIRST PAPER	
FIRST HALF	
Examiner-Maulvi S. Muhammad Haidar	
The figures in the margin indicate full marks	
1. Write in Arabic a short biography of Abu Nawss.	10
2. Translate into English:—	20
(۵) امکنت عبازلتی من صمت اباء	\$
(a) امکنت عبازلتی من صمت اباء ما زاده النبی شیئیا غیسر اغراه	

اين التورع من قلب يهيهم الي حانات قطر بل ر العود ر الناء و صوت فتانة التغريد ناظرة بعيس ظبي يريد المساء حواء جرت ذيول الثياب البيض حين مشت كالشمس مسبلية اذيال لاء لاء ر قرم ناقوس دیری علی شرف مسيم في ساواه الليال دعاء رار انی استردداک فرق مایی (b) مرن البلسوي لا عوزك المسزيد ر لو عنوضت على المنوتى حياتي بعیش مثل عیشی لم یاریادوا تقرل غداة البين احدى نسائهم لى الكبد العربي فسردلك الصبر و قد خضبتها عبرة فلدمعها على خدها خد و في نعرها تعلم لها بشر صاب وعين مريضة ر احسس ایماء باحسس معصم

3. Describe the contention of Muslim with Abu Nawas about the two following lines and also the remarks of Abufuziah Muhalhil:—

ذكر الصبرح بسعرة فارتاها ر امله ديك الصباح صياها عامي الشباب فراح غير مفند ر اتام بين عزيمة ر تجلد

Either,

4.

10

10

(a) Write how it was that the productions of other poets were ascribed to Abu Nawas, while some of his poems were partially or entirely lost.

(b) Discuss the opinions of any two great poets regarding Abu Nawas.

SECOND HALF.

Examiner—Dr. A. Suhrawardy, M.A., Ph.D., M.L A.
The figures in the margin indicate full marks

1. Translate into English :-

15

10

ر فی الحیّ احری بنفض المردشادن مظاهستر سبطنی لبوء لبوء و زیسرجد و انبی لامضی الهستٌ حیسن احتضباره

بعوجاء منزقال تروح وتغتيي

اذا القوم قالوا من فتى خلت انّنى

عنیت فلم اکسل و لم اتبلد

احلت عليها بالقطيع فاجذمت

ر قد خب ال الامعسز المستسوقية

2. Write in your own Arabic the morals contained in the following lines:—

رايت المنايا خبط عشراء من تصب

تمتــه ر من تـغطی يعمـــر فيـهـــرم و من لا يصــانـع في امـور كثيـــرة

یضرس بانیساب ر یـوطا بمنسسم ر من یك ۱۵ نضـل نینجـل بفضاـه

یکمی حمصده دما علیه رینصدم ر سمی هاب اسباب المنایا یعلنه

ر ان یسترق اسباب السمساء بسلم ر کائن تری من سامت لگ معجب

زيادته ار نقصه في التكلم

8. Elucidate the meaning of the following lines:

متسى ننقسل الى قبوم رهبانسا
درنسوا ني اللقباء لهبا طعيبنسا

ر انسا نسوره السرايسات بييضا ر نسسه رهن حمسرا قده ررينسا متسى نعقسه قريسنتسا بعبسل تجف العبسل او تقسسل: القسرينسا يسهمه رن السرؤس كسمسا يسهمها الكسرينسا خسزا ورة بابطعها الكسرينسا

4. Briefly describe the تا! refe red to in :—
من لنـا عنده من الخيـر أيات ثـالاث فـى كلـىسن القـضـاء

5. Write notes on any three of the following:

'ام ایاس (a) نصرب العیر (b) ارمی (c) ارمی (d) ام ایاس (d)

SECOND PAPER

FIRST HALF

Examiner-MAULVI A. HADI

The figures in the margin indicate full marks

Attempt the PIRST question and ANY TWO of the rest

18

1. Translate into English with notes where necessary:

حدثنا محمد بن جرير قال حدثنا معمد بن عبيد المعاربى قال حدثنا عبد الله بن المبارك عن عكرمة بن عمار قال حدثنى سماك الحنفى قال سمعت ابن عباس يقرل حدثنى عمر بن الخطاب قال لما كان يرم بدر و نظر رسول الله صلى الله عليه وسلم الى المشركين و عدتهم و الى اصحابه وهم نيف على ثلثمائة استقبل و عدتهم و جعل يدعو و يقول اللهم الخبربي ما و عدتنى اللهم ان تهلك هذه العصابة من إهل الاسلام لا تعبد في الأرض فلم يزل كذلك حتى سقط وداه فاخذ ابوبكر

فرضع رداءه علیه ثم التزمه من ررائه نقال کفاك یا نبی الله بابی انت ر امی منا شدتك لربك سینجز لك ما رعدك -

وقد رري عن الاعمش ان على بن ابى طالب رضى الله تعالى عنه قال على المنبر بالكوفة ر ذكر رضى الله تعالى عنه قال على المنبر بالكوفة ر ذكر ثقيفا لقد هممت ان اضع على ثقيف الجزية لان ثقيفا كان عبد الصالم نبي الله عليه السلام رانه سرحه الى عامل له على الصدقة فبعث العامل معه بها فهرب راستوطن الحرم ران ارلى الناس بصالم محمد صلى الله عليهما و سلم راني اشهدكم انى قد رددتهم الى الرق قال و بلغنا ان ابن عباس قال رذكر عنده ثقيف فقال هو قسى ابن منبه ركان عبد لامراة صالم نبى الله صلى الله عليه عليه و سلم و هى الهيجمانة بنت سعد فرهبته لصالم عليه و انه سرحه الى عامل له على الصدقة *

3. Render the following verses into prose order and explain fully:— 16

نهم ملوك مالم يروك نان و انا همو مذك منزل خمدوا تعدرهم رعدة لديك كما قفقف تعدد الدجنة الصدد لا خوف ظلم و لا قلا خلق الاجلالا كساكه الصدد و انت غمر الندي اذا هبط الزوار اوضاً تعلما حمدوا نهم رفاق فرنقة صدرت عنك يغنم و رفقة ترد ال حال دهر بهم فانك لا تنفك عن حالك التي عهدوا

- 4. What do you know of عاحب الاغاني ? Give a short account of 16 him in Arabic or English.
- 5. Explain the following in Arabic:-- ثم قال رسول الله صلى الله عليه و سلم ابشروا على الله عليه و سلم ابشروا على الها الناس وإنما يريد الانصار ذلك انهم كانوا عدو الناس وانهم حين بايعوا بالعقبة قالوا يا رسول الله إنا براء من

ذمامك حتى تسير الى دارنا فاذا رصلت فانت فى ذمامنا نمنعك مما نمنع منه انفسنا ر ابناءنا ر نساءنا فكان رسول الله صلى الله عليه و سلم يتخوف ان لا تكون الانصار تري عليها نصرته الا ممن دهمه بالمدينة عدرة و ان ليس عليهم ان يسيرهم الى عدر في غير بلادهم فلما قال ذلك رسول الله صلى الله عليه و سلم قال له سعد بن معاد و الله لكانك تريدنا يا رسول الله قال اجل قال نقد امنابك يا رسول الله و صدقنا و شهدنا ان ما جئت به هو الحق *

SECOND HALF

Examiner-Maulvi S. Muhammad Haidar

[Full marks-50]

The questions are of equal value

1. Translate into English :-

لا يغنى إن عرب البادية يقربون البعد لاعتبادهم على قطع المسافات الشاقة رلانهم لا يستعملون الساعات رلا يعرفون حساب الارقات لذلك تري احدهم يقول لك ها هي البيئر الفلانية ريشير باصبعه إلى جهتها ان بينك ربينها ربع ساعة ارساعة هيهات هيهات فاذا بيدك ربينها مسافة يوم ادر يومين راذا قال لك قد رصلتها فتسير إلى آخر النهار رلا تبلغها *

- 2. Write a biographical note on Hamadani, in Arabic.
- 3. Translate into English :--

مثل الانسان في الاحسان كمثل الاشجار مي الثمار سبيله اذا اتى بالحسنة ان يرفه الى السنة و انا كما ذكرت لا املك عضوين من جسدي و هما فوادي ويدي اما الفواد فيعلى بالوفود و اما اليد فتولع بالجود لكي هذا الطلق النفيس ليس يساعده الكيس و هذا

الطبع الكريم ليس تجمله الغريم و لا قرابة بين الذهب و الأدب *

4. Re-write in prose order, adding explanatory notes where necessary:—

طرباً لقد رق الطدلا م ررق انفاس الصباح رسري الى القلب العليل عليل القداس الرماح و مليحة ترنو بدُر جسة و تبسلم عن اقلاح قامت وقد برد العلي تميس مى ثنى الوشاح تشدد و غنائها برد على كبدد اقتراح

- 5. Expand the meanings of any two of the following :-
 - (a) العذق لا يزيد في الرزق *
 - ان بعد الكدر صفوا ر بعد المطر صعوا *
- وه) ارخص ما يكون النفط اداغلا راسفل ما يكون الا ريب اذا علا *

THIRD PAPER

FIRST HALF

Examiner-Maulvi Abu Musa Ahmadul Haq

[Full marks-50]

Translate into Arabic any two of the following passages :-

- (a) Tabir cleared the mountainous tract, seized Qazwin and reached Hulwan, which he made his headquarters. From here he was sent to Ahwaz, leaving Harthams in the north, Mamun now assumed the title of Ameerul-Muminin, and the whole of Persia accepted him as Caliph. Fazl b. Sahl was invested with supreme control throughout the principality, from Tibet to Hamadan, from the Indian Ocean to the Caspian Ses. He combined the offices of minister of war with that of chancellor of the exchequer.
- (b) Soon after, the governor of Khorásán rebelled, and al-Manşúr sent Ibn Khozeima, a general of note, to put the outbreak down, and with him his own son and heir, Al-Mehdi, now about twenty years of age. On their approach, the rebel was attacked by his own people, who, mounting him backward on an ass, sent him thus to the Caliph. Both he and his followers were treated with horrid cruelty, and tortured till they gave up all they possessed. The handa and feet of the rebel governor were cut off, he was then beheaded.
- (c) Religion had so little influence on the lives of the Pre-Islamic Araba that we cannot expect to find much trace of it in their poetry. They believed

vaguely in a supreme God, Allah, and more definitely in his three daughters—al-Lat, Manat, and al-'Uzza—who were venerated all over Arabia and whose intercession was graciously accepted by Allah. There were also numerous idols enjoying high favour while they continued to bring good luck to their worshippers.

SECOND HALF Examiner—PROF. M. SHAFI. M.A.

[Full marks-50]

Translate into English ANY THREE of the following passages :-

الميدان جلس فيه رجمع الناس من اهله راصحابه و الميدان جلس فيه رجمع الناس من اهله و اصحابه و امر ان يلبس الناس كلهم الديباج و جعل سريرة في الايران المنقوش بالفسا فسا الذي كان في صدرة صورة العنقاء فجلس علي سرير مرضع بانواع الجوهر و جعل علي وأسه التاج الذي في الدرة اليتيمة فما وأي الناس احسن من ذلك اليوم فاستاذنه اسحاق بن ابراهيم النشيد فادن له فانشد شعر اليوم فاستاذنه اسحاق بن ابراهيم النشيد فادن له فانشد شعر اما سمع الناس احسن مذه في صفته و صفة المجلس الا ان اذق اول تشبيب بالديار القديمة و بقية آثارها فكان اول بيت منها و أن الرابي فمحاك يا ليت شعري ما الذي ابلاك فتطير المعتصم منها و تغامزن الناس ، قال فاقمنا يومنا هذا و انسوننا فما عاد منا اثنان الى ذلك المجلس و خرج المعتصم الى سر من وأي و ضرب القصر *

(2) ر صارت بغداد فی عهد الرشید ر ابنه المأمون منبعا للعضارة ر مشرقا للمعارف ر لا نزید عصر العباسیین ر صفاد احضارتهم تعریفا بغیر قولنا آن اررربا کانت علی عهدهم تتغبط کلها فی غیابة الغرایة ر الضلالة ر تهیم فی فیا فی الترحش ر الجهالة ثم غیر القوم ما بانفسهم فغیر الله مابهم ر تمزق هذا الملك الاسلامی الفخیم ر تشتت شمل هذه الدولة الهائلة و امبعت الخلافة الاسلامیة مثلثة فکانت ارلاهن فی العراق رهی العالیة و العباسیة و مرکزها بغداد و الثانیة فی مصر و هی الفاطمیة و

مقرّها القاهرة و الثـالثـة في الاندلس و هي الاموية و عاصمتها قرطبة من اعمال اسبانيان الآن *

(3) و للتدنيل في الكلام موقع جليل و مكان شريف خطير لان المعنى يزداد انشراحا و المقصد اتضاحا و هو اعادة الالفاظ المترادفة على المعني بعينه حتي يظهر لمن لم يفهمه و يتوكد عند من فهمه و هو ضد الاشارة و التعريض، و ينبغي الن يستعمل في المواطن الجامعة و المواقف الحافلة لان تلك المواطن تجمع البطي الفهم و البعيد الذهن و الثاقب القريحة و المجلد الخاطر فان تكورت الالفاظ على المعنى الواحد توكد عند الذهن اللقن و صع للكليل البليد و مثاله من القرآن و ما جعلنا لبشر من قبلك الخلد افأن مت فهم الخالدون *

كيف النُزوع عن الصبا ر الكاسِ قَلْس ذَا لنا يا عاذلي بقياسٍ وُ اذا عدتُ سنى كم هي لم اجد للشيب عذرا في النزول براسي قالوا كبرت فقلت ما كبرت يدي عن ان تسير الى فمي بالكاس و كان شاربها لفرط شعاعها باليل يُـكُرُعُ في سُنَا مِقباسِ فيادًا نزعت عن الغواية فليكن في شنا مقال النُـرُعُ لا للناسِ في الغواية فليكن و اذا اردت مديم قوم لم تمن في مدحهم فامدم بني العباسِ

(5) هر عمر بن الخطاب بن نفيل بن عبد العزي و كنيته ابرحفص ويلقب بالفارق وهواول من سمى باميرالمومنين وكن اعسر يسر (يعمل بكلتي يديه) طويلا اصلع ولونه شديد السمرة ولد وضى الله عنه سنة اربعين قبل الهجرة وكان

في صغره يرعى الغنم لابيه ثم اشتغل بالتجارة و سافر جملة مرات في الجاهلية الى الشام وغيرها في تجارته او سفارته لقومة و كان شجاعا مهيبا بعيد النظر في الاشياء مشهورا بالصدق و الامانة و الشهامة الادبية شديدا في قوله وعمله ر كان في اول الاسلام من اشد الناس على رسول الله صلی الله علیه و سلم *

FOURTH PAPER

FIRST HALF

Examiner—DR. AZIMUDDIN AHMAD

[Full marks-50]

The questions are of equal value

Answer ANY FOUR questions

1. Give in your own words some glimpses of the position and influence of women in Pre-Islamic society.

2. Trace the origins of \rathian poetry and describe its forms, contents, and general features.

3. 'In the fifth century A.H. the ogma of the unattainable perfection of the heathen poets may be regarded as utterly demolished.' Refute or justify the above-mentioned remark.

4. Trace the origin and growth of rhymed prose in Arabic literature.
5. Discuss at some length the following remark:—
'Ghazáli's search for religious truth exercised a profound and momentous influence upon the future history of Muhammadan thought.'

6. Write notes on:

(a) الشعوبية (c) , معجم الأدبا , أخوان الصفا , and (d) ابی رشد .

SECOND HALF

Examiner-KHAN BAHADUR SHAMSUL-ULAMA HIDAYET HOSSAIN [Full marks-50]

The questions are of equal value Answer ANY THREE of the following

1. Give the chief characteristics of the poetry of the Spanish Arabs.
2. Who was Ibn Khaldun? What is his contribution to Islamic History? Disscuss the importance of his Muqaddama.

3. Discuss the influence of the Arabs on the Spaniards.

- 4. Give a brief account of the contribution of the Persians to Arabic literature.
 - 5. Write short notes on :-

البيررني - نغم الطيب ـ يتيمة الدهر *

FIFTH PAPER FIRST HALF

Examiner—DR. M. Z. SIDDIQUI, M.A., PH.D. [Full marks—50]

The questions are of equal value

رالا سم ما دل على معنى ني نفسه دلالة مجردة عن 1. الاقتران و له خمائص"

- (a) Explain the above passage fully.
- (b) Describe the properties (خصائص) of and illustrate them with examples.
- 2. (a) Translate into English, adding explanatory notes where necessary:

 قد يتبارل الاسم بواحد من الامة المسماة به المناك.

 من التارل يجوى مجرى رجل و فرس فيجتر على اضافته و ادخال اللام عليه _ قالوا مضر العمراد و ربيعة الفرس " و انما و الشاة _ و قال _
- علا زیدنا یوم النقاراس زیدکم بابیض ماضی الشفرتین یمان رقال ابو النجم: ---

فاعد ام العمرر من اسيرها حراس ابواب على قصورها: ___

رأيت الوليد بن اليزيد مباركا شديدا باحناء الخلافة كاهله والعال الاحطل: __

رقد كان منهم حاجب رابن امه ابوجندل رالزيد زيد المعارك و عن ابى العباس اذا ذكر الرجل جماعة اسم كل راحد منهم زيد قيل له نما بين الزيد الارل رالزيد الاخر رهذا الزيد اشرف من ذلك الزيد رهو قليل *

⁽b) Explain the points of illustration in the quotations in the above passage.

^{3.} Describe أجم معرب and its different kinds mentioned in your text. State their grammatical peculiarities, and the difference of opinion among the grammarians abo at them.

4. (a) Translate into English, adding notes where necessary:—
ر المنقول على ستة انواع:—

منقول عن اسم عین کثور ر اسد ' ر منقول عن اسم معنی کفول عن اسم معنی کفول عن صفة کحاتم ر نائلة و منقول عن ضفة کحاتم ر نائلة و منقول عن نعل اما ماض کشمر ر کعسب ر اما مضارع کتغلب ر یشکر ر اما امر کاصمت فی تول الراعی :۔۔ اشلی سلوقیة باتت و بات بها بوحش اصمت فی اصلابها ارد ر اطرقا ' فی قول الهذلی :۔۔

على اطرقا باليات الخيام الا الثمام ر الا العصى ـ ر منقول عن صرت كبية ر هو نبز عبد الله بن العارث بن نونل و منقرل عن مركب ر قد ذكرناه *

(b) Explain the grammatical problem described in the above passage.

SECOND HALF Examiner—MAULVI A. HADI [Full marks—50] The questions are of equal value Answer ANY FOUR questions

- بينوا اقسام الحقيقة العقلية مفصلا مع الامثلة * ...
- شرعوا شرحاً واضعاً حذف المسند اليه مع الامثلة .2 و لما قيل بالمسند اليه حذفه و في المسند " تركه"
- بينوا الاستغراق الحقيقي و العرفي مع الامثلة * 3.
- ما الاختلاف فی قوله الشاعر یزیدك رجهه حسناً ـ 4 اذا ما زدته نظرا بین الشیخ عبد القاهر ر الامام فخرالدین الرازی ر صاحب المفتام *

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner—Maulana Abu Musa Amadul Huq

الكشاف

Answer any four of the following

ترجموا بالانكليزية: — اذ قالت امرأة عمران رب انى نذرت لك مانى بطنى معررا فتقبل منى انك انت السميع العليم فلما رضعتها قالت رب انى رضعتها انثى رالله اعلم بما رضعت رليس الذكر كالانثى رائى سميتها مريم رانى اعيدها بك رفريتها من الشيطن الرجيم فتقبلها ربها بقبول حسن رانبتها نباتا حسنا وكفلها زكريا كلما دخل عليها زكريا المعراب رجد عندها رزقا قال يمريم انى لك هذا قالت هر من عند الله عندها رزق من يشاء بغير حساب

 2_1 نسروا الآیات الآتیة بالعربیة کما نسرها الزمخشری 3_2 نمی الکشان :—

ر اذ اخذ الله ميثاق النبيين لما اتيتكم من كتب رحكمة ثم جاءكم رسول مصدق لما معكم لتؤمنن به ر لتنصرنه قال واقررتم و اخذتم على ذلكم اصرى قالوا اقررنا قال فاشهدوا و انا معكم من الشهدين فمن تولى بعد ذلك فارلئك هم الفسقون -

لمُ دخلت الفاء في هبر ان في قوله (ان الذين 3 يكفرون بايت الله و يقتلون النبيين بغير حق و يقتلون الذين يأمرون بالقسط من الناس فبشرهم بعذاب اليم ـ

(شعر)

ر ياري الى نسرة عطال أو شعثًا مرامَيع مثل السعالي الس

(شعر)

ر شارب مربع بالكاس نادمنى لا بالحصور و لا نبها بشار كيف شبه عيسى بآدم فى قوله (ان مثل عيسى عند الله كمثل آدم) وقد وجد هو بغير اب و وجد آدم بغير اب و ام-

SECOND HALF

Examiner-Prof. M. Shafi, M.A.

Answer ANY FOUR of the following questions

- 1. Translate into English, adding necessary notes:
- (a) عن ابی سعید الخدری عن النبی صلی الله علیه و سلم قال ایاکم و الجلوس بالطرقات فقالوا یا رسول الله مالنا سن مجالسنا بد نتحدث فیها قال فاذا ابیتم الا المجلس فاعطوا الطریق حقّه قالوا و ما حق الطریق یا رسول الله قال غضّ البصر و کفّ الاذی و ود السلام و الامر بالمعروف و النهی عن المذکر۔
- (b) عن ابى هريرة ان رسول الله صلى الله عليه رسلم قال ثلث منجيات و ثلث مهلكات فاما المنجيات فتقوى الله فى السر و العلانية و القول بالحق فى الرضا و السخط و القصد فى الغنى و الفقر و اما المهلكات فهوى متّع و شمّ مطاع و اعجاب المرا بنفسه و هى المّدهن -
- البي هريرة عن النبي صلى الله عليه رسلم قال الله عليه رسلم قال النبي بنر اسرائيل تسرسهم الانبياء كلما هلك نبي خلفه نبي و الله لا نبي بعدى رسيكون خلفاء فيكثرون قالوا فما تأمرنا قال فرا بيعة الاول فالارّل اعطوهم حقهم فان الله عمّا استرعاهم على الله عمّا استرعاهم على الله عمّا استرعاهم على الله عمّا الله عمرا ال
- (a) عن عائشة قالت قال رسول الله صلى الله عليه رسلم الا **تبعرز شهادة خائ**ن و لا خائنة و لا مجلود حدا و لانمي غمر

على اخيه و لا ظلين في ولاء و قرابة و لا القانع مع اهل البيت -

- علیه و سلم علی السمع و الطاعة فی العسر و الیسر و المنشط و المكوة و علی السمع و الطاعة فی العسر و الیسر و المنشط و المكوة و علی اثرة علینا و علی ان لا نفازع الامر اهله و علی ان نقول بالحق اینما كنا لا نخاف فی الله لومة لام و علی ان نقول بالحق اینما كنا لا نخاف فی الله لومة لام و (c) عن عمر بن الخطاب قال قال وسول الله صلی الله علیه و سلم انه تصیب امتی فی آخر الزمان من سلطانهم شدالد لا ینجر منه الا رجل عرف دین الله فجاهد علیه بلسانه ویده و قلبه فذلك الذی سبقت له السوابق و رجل عرف دین الله فسکت علیه فان دین الله فسکت علیه فان وایی من یعمل الخیر حبه علیه و ان رای من یعمل بباطل الغیر حبه علیه و ان رای من یعمل بباطل الغیم علیه فائله نام الغیم علیه و ان رای من یعمل بباطل
 - 5. Explain in Arabic :--
- (a) عن ابی سعید الخدری عن رسول الله صلی الله علیه و سلم قال من رای منکم منکرا فلیغیره بیده فان لم یستطع فبلسانه فان لم یستطع فبقلبه ر ذلک اضعف الایمان ـ
- (b) عن ابى موسى قال قال رسول الله صلى الله عليه و سلم مثل الجليس الصالم و السوء كحامل المسك و نافم الكير فحامل المسك اما ان يتقام منه و اما ان يحق الكير اما ان يحق ثيابك و اما ان يحق ثيابك و اما ان يحق ثيابك و اما ان تجد منه ويحا خبيثة -
- (c) عن ابی هریرة قال قال رسول الله صلی الله علیه ر سلم تعلموا من انسابکم ما تصلون به ارحامکم فان صلة الرحم مصبّة فی الاهل مثراة فی المال منسأة فی الاگر۔
- عن عمر بن الخطاب انه كان اذا بعي عمّاله شرط (d) عن عمر بن الخطاب انه كان اذا بعيف عمّاله شرط عليهم ان لا تركبوا برذونا و لا تأكلو نقياً و لا

تخلقوا ابوابكم درن حرائم الناس فان فعلتم شيئًا من ذلك فقد حلَّت بكم العقوبة ثم يشيِّعهم -

4. The Prophet spoke several times in parables. Give the gist of some of his parables.

Give some anecdotes from the باب المزاح

5. Re-write with vowel-points :-

عن الطفيل بن ابني بن كعب انه كان ياتي ابن عمر فيغدر معه الى السوق قال فاذا غدرنا الى السوق لم يمر عبد الله بی عمر علی سقاط ر لا علی صاحب بیعه ر لا مسکین ر لا علی احد الله سلم علیه قال الطفیل نجلت عبد الله بن عمر يرما فاستتبعني السوق فقلت له ر ما تصنع في السوق ر انت لا تقف على البيع ر لا تسأل عن السلع ر لا تسوم بها ر لا تجلس في مجلس السوق فاجلس بنا ههنا ختصدت قال فقال لی عبد الله بن عمر یا ابا بطن قال و کان الطفيل ذا بطي انما نفدر من اجل السلام نسلم على من لقيناه -

SEVENTH PAPER

The questions are of equal value

Answer ANY THREE questions from BACH half

FIRST HALF

Examiner-DR. A. AHMAD

*

1. Compare 'Umar I and 'Umar II as Caliphs.
2. Discuss at some length the political achievem
3. Whom do wan consider the greatest of the Si Discuss at some length the political achievements of the Baramika.

Whom do you consider the greatest of the Umayyad rulers, and why? Give a short account of the system of government under the early 'Abbasids.

5. Trace the growth of political events which led to the establishment of the Fatimids and the Seljuqs.

SECOND HALF

Examiner—Khan Bahadur Shamsul-ulama Hidayet Hossain

1. 'The Moore organised that wonderful Kingdom of Cordova which was a marvel of the middle ages, and which, when all Europe was plunged to berbaric ignorance and strife, alone held the torch of learning and civilisation bright and shining before the Western world.' Discuss.

- 2. Trace the career of Abdur Rahman III, and give an etsimate of his character and achievements.
- 3. Discuss the causes that led to the downfall of the Mughal dynasty in India.
 - 4. Write notes on :---

The Almoravides; the Kingdom of Granada; the Aghlabides.

EIGHTH PAPER

(Essay)

Examiner -- { Dr. A. Suhrawardy, M.A., Ph.D., M.L.A. Prof. M. Z. Siddiqui, M.A. Ph.D.

The figure in the margin indicates full marks

Write an essay on any one of the following :-

100

- (b) Development of science and literature under the Muslims.
- (c) Lessons in the Islamic history, for the Muslims.
- (d) The growth and development of Art and Architecture under the Muslims

PERSIAN

FIRST PAPER

The figures in the margin indicate full marks

FIRST HALF

Examiner—Aga Muhammad Kazim Shirazi

بنطستیس و تسم که زد آنم پرستینش درید گسرگ ستسم نه چر قابیس تشنه شد بجفا داد هابیسل پرستیس بفتند نه چر ادریس پرستیس بفتند در فردرس را ندیده به بند چرن خلیل از ستاره و مه و خور پرستینها درید بی غم خسور شب از همچر روز روشن شد فسار نمسرود باغ و کلش شد

از انتخابات ذیل فقط در تای آنرا بفارسی تفسیر علی انتخابات دیل فقط در تای آنرا بفارسی تفسیر نمائید بقسمیکه مطلب ظاهرگردد: ــــ

(a) گرچه ذات بعقل فرزانه است عشق مگذار کوهم از خانه است زیرکی دیـو ر عاشقی آدم این بمان تا بدان رسی در دم عقل عـزم احاطت ری کـرد غیرت عشق پای از پی کـرد قـدم عقـل نقـد حالی جری شعلـهٔ عشق لا ابالی کـری شعلـهٔ عشق لا ابالی کـری همه در جنب عشق دانی چیست همه در جنب عشق دانی چیست نفس نقشی ر عقـل نقاشی طبع کـردی ر عشـق فراشی عشل چرن نقش بست نفس ستـرد طبع بصرد

ور طریقت سر و کاه میدار در بداری چون شمعدار از نار در بداری چون شمعدار از نار (۵) این نه از نام تو ختن باشد که نیازی فردختی باشد قدرتش را بچشیم عجز مبیس خواجه آزاد کی مباش جنیس تا بخود قائمی بپوش ر بخور ر مدور در بدر قائمی میدرز و مدور بی تودل مسجداست ربا توکنشت

10 در عبارت فارسی خرد بیان نمائید که حکیم سفائی 3. عشق را چه طور تفسیر کرده ر حصول آن را بر چه قرار داده ر حکایتی از حکایات را که بطریق تمثیل درین باب ایراد کرده بنریسید.

ا خلاصهٔ مطلب یکی از در انتخاب ذیل را در ا فارسی سانه بیان فرمائید : ___

(a) بر سر شاه راه هیچ کسی برسی در خود ر درر نوسی ایتی کود کونی از صونی عشق ر درای قریشی ر کونی صونی صونی و عشق ر در حدیدی هنوز میتوز ر یجوز سلب ر ایجاب ر لا یجوز ر یجوز مستها بسر آررده که بلی را بسلا بدل کسونه که بلی را بسلا بدل کسونه دانش ر داد در حس بست ر راه جال بکشاد در حس بست ر راه جال بکشاد

چون تـرا كرد حلـم ار ساكـن ايمـن از رباينـدگان شـدى ايمـن علـم ار عيب ما بپرشيـده تـر نگفتـه سـر از نيرشيـده آدمـي زادهٔ ظلـرم جهـرل فضرل خصرصيات كلام حكيم سنائى را تعريف نمائيد زاز .5

خصوصیات کلام حکیم سنائی را تعریف نمانید ر از .ه کلام از در اثبات بیانات خرد شاهد بیآررید *

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SECOND HALF

Examiner-Prof. FIDA ALI KHAN

خواص و مزایای کلام عرفی را که او را از شعرای ۱۰ معاصر ممتاز می سازد به تفصیل بیان کنید * مطالب أشعار ذيل را شرح كنيد : ای داشته در سایه هم تیغ ر علم را ری ساخته آرایش هم فضل و درم را جم مرتبهٔ خانخنان کنز اثر نطق جوں کل همگي گوش کند جذر اصم را كنجينة احسانش تنك مايه نكرده كر تا ابد انعمام دهد صفر رقم را گر بشنود از دهر که مردرد کف تست بیرون نگند سکه ز آغرش درم را گر جاه حسودت بهذر هندسی انتد در مرتبه نقسان رسد از صفر رقم وا هر عطسه که از مغز کمان تو کشاید رين بكريبان بقا خون عدم را (a) ازجم در اشعار فوق که مراد است و دلیل بر مدعا چیست *

- ه (b) مصرع ارل را از بیت ثانی چه طرر باید تقطیع کرد که برزن درست افتد ∗
 - ی منکه باشم عقل کل را نارک انداز ادب 8. مرغ ارصاف تو از ارج بیا ن انداخته معنی این شعر را بالاستیعاب بقید تحریر آرید *

مطلعهای ذیل را با ترضیم جمیع معاس ر معایب مرازنه کنید ـ

مطلع عرفی انداخته ای متاع درد در بازار جان انداخته گرمر هر سرد در جیب زیان انداخته مطلع شاعر دیگر

ای ز رهم غیسر غرغا در جهسان انداخته گفته خود حرفی ر خود را در گمان انداخته

معانی یکی از این د انتخاب را به نثر فارسی . د خودتان چنان بنوبسید که چیزی از مضمون فوت نشود ـ رمفهوم هر بیت قطعهٔ مختار روشن گردد :

(a) فشاندس در ازل گردسی ز دامن این زمان بینم که نامش عالمست ر میکشد در دیده خاقانش اگر طفل دلم را دایه حرر آید ر گر مریم بهنگام مکیدن زهر می جرشد ز پستانش مسلمانی کسی داند که در یکرنگی رحدت زهر مو چشمهٔ خرن ریزد از خوانی مسلمانش صفا می جرید از قصر دلی معمورهٔ جنت که انواع خرابیها بود معمار ایرانش رفا را یاد گیر از درست کز ماتم سیه سازد لباس کعبه در مرگ شهیدان بیابانش

(b) گر بیسان سخنم عرد بیر آتش مانند میم حشر اموات شود هر طرف از نشر شمیم دیر حرمگاه دل ر حجله گه طبع من است عقیم خامله مریم ر جز مریم اگر هست عقیم غنچه از نسبت سحبان بسخن عار کند گر کنم طرز سخن باد صبا را تعلیم در پذیرد زدمم صورت دیوار حیات مایهٔ فطرت ازر رام کند فهم حکیم آن خردمند حکیمم که بسبابهٔ عقال گیرم اندر حرم جوهر کل نبض سقیم

نبذی از سیرت عرفی را با رقایع ر حرادث مهمه 5. بضبط تحریر آرید *

SECOND PAPER

The figures in the margin indicate full marks

FIRST HALF

Examiner-MAULVI MD. ISHAQ, M.A. B.Sc.

1. Explain in Persian, with reference to the context, any five of the 20 following:—

(a) جهان را باهن نبایدش بستن را برنجیس بستن را برنجیس جهان را اگر شاعری را نو پیشت گرفتسی یکسی نیسز بگروت خنیساگری را در نیست جز عالسم زبان خط از را شخص مردم دفتسر است خط از را شخص مردم دفتسر است فاردن شهار ر نه افزون در است خرگسز بداننسه بست راز بدتس

- (ه) کازری از بهسر چه دعسوی کذیسی چونکسه نشرئی خود دستسار خویش (۲) لیکسی از راه عقسال هشیساران
- لیکسی از راه عقسل هشیساران بشنساسنسد نسربهسی ز آمساس
- (g) چون نیندیشی که بی هاجت روان پاک را ایزد دانا درین صندرق خاکی جون دمید
- 2. Give in Persian the substance of any two of the following:-

(a) باز جهان تیز پر ر خلیق شکار است باز جهان را بجز شکار چه کار است نیست جهان خوار سوی ما ز چه معنی خوردن ما سوی باز از خوش ر خوار است قائلیه هرگز نخیورد ر راه نیز باز باز جهان رهزنست ر قائله خوار است صحبت دنیا مرا نشاید از یواک محبت دنیا بسری عاقل ر هشیار صحبت دیوار پر ز نقیش ر نگار است صحبت دیوار پر ز نقیش ر نگار است کار جهان همچر کار بیهش مستان کار جهان همچر کار بیهش مستان یکسوه نا خوب ر پر ز عیب ر عوار است

(ه) ایس چنبر گردنده بدین گری مدرر چون سر ر سهی قدر مرا کرد چو چنبر آمد برخم تیسرگی ر نور بررن تلفت تا زنده شب تیسره پس ررز منرر هر رعده ر هر قول که کرد این فلک رگفت آن رعده خلاف آمد ر آن قلول مزرر من قول جهسان را برد جشم شنودم فیگفت که بسیسار پسود قول مبصر

قولے بقلے کوید کویا بکتابت قولی بزیان گوید مشروح مغسر مر قبل قلم را بره چشمت بشنو مر قول زبان را بوه گوشت بنگسر گسستم ز دنیای جا نی امل ترا باد بند رکشای رعمل غزال و غزل هر در آن مر ترا نجویم غزال و نگویم غزل مرا ای پسر عمدر کوتاه کرد فراخی امید و درازی امل زمانی بکسردار مست اشتسری مرا بست و بسیـرد زیر سبل بسی دیدم اعزاز ر اجلالها ز خراجه جلیل ر امیر اجل ولیکن ندارد مرا هیسیم سود امير اجل جون بيايد اجل

8. Mention the chief characteristics of Nāṣir-Khueraw's poetry.

6

4. Discuss the character of Nāṣir-i-Khusraw as it is revealed in his 10 poems.

SECOND HALF

Examiner-Shaikh Abu Nash Gilani

1. Explain in Persian the following lines, noticing the allusions contained in them:—

خدای را چه فزاید از اینکه شیطان را ذلیل کرد ر نمود انتقام ر راند از در ر زبن نشاط که گرساله را بسوخت کلیم کلیم کلیم را نبود مدم ر تهنیت در خور رزان مهدمی آخر زمان چه فخر کند ازین نوید که دجالی اونتاد ز خو

Oτ,

Explain in Persian with reference to the context:--

مرآت رهی رایت دین آیت هدا معلی باد بسمله مسلد نشین کن

معلی به بسمله مسلک تشین دن مصداق نفس کامله عزلت گزین لا

گر حکم او بجنبش غبرا دهد مثا**ل**

رر ر**آ**ی ار برامش گردون دهد ر**ضا**

راند قضا پیاپی کاجر است ای قدر

گوید قدر دمادم کامضاست ای قضا

2. Translate into English and explain the beauty and elegance of thought and speech contained in each of the following lines:—

ساقیان راست ازین معجزه کز ساغر می

آب ر آتش را با یک دگسر آمیطته اند

اتش طور عجيس، با يد بيضا كردند

نار نمــرد بـآب خضــر آمیخته اند

بان سر کام فرور یخته از زریس جام

خارران گوئی با باختــر آمیختـه اند

کرده در جام ملالی می خورشید مثال

يا هلالي است كه با قرص خور آميخته اند

قطرة آب بهم بسته كه هيچش نم نيست

با رران آتش نمناک در آمیخته اند

آب بی نم نگر ر آتش پرنم که بطبع

هر نمش را بهـــزاران شرر آمیخته اند

8. Explain fully in Persian one of the following passages :--

ای طود و چهر تو یکی نار و یکی مار

بی نار تو در نارم و بی مار تو بیمار بی نار تو یار است مراریاله و اندره

بی مار تو کار است مرا مویهٔ و تیمار

جز من که بنار تو و مار تو گریزم

دیار گریزند هم از نار و هم از مار

نبود عجب ار رام شود مار تو بر من

زیراکه شود رام چو مقلوب هود مار

هر چهرهٔ تو خال تر ای غارت کشمیر

بر قامت تو زلف تو ای آفت فرغار

چون زنگیکی ساخته در جلد نشیمن

جون زنگیکی ساخته در جلد نشیمن

В

العمد که از موهبت ایزد داور
زد تکیه بر ارزنگ حمل خسرو خاور
الماس فشان شد فلک از ژالهٔ بیضا
یاقوت نشان شد چمن از لالهٔ احمر
در دامن گل چنگ زده خار بغواری
ز آنگونه که درریش بدامان توانگر
در لاله وکل خلق خرامان شده چونانک
نرگس بعمال گل خیری شده خیره
نرگس بعمال گل خیری شده خیره
ز انگونه که بیمار کند میل مزعفر
لاله چو یکی حقهٔ بیجاده نمودار

4. Give your estimate of Qa'ani as a poet.

14

UI,

Discuss the following statement:—
'Qa'ani was one of the greatest and the least moral of the modern
poets of Persia.'

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THIRD PAPER FIRST HALF

Examiner-Maulvi Shah Kalimur Rahman, M.A. The figures in the margin indicate full marks

در بارهٔ حدوث علم کلام و جدال و پیدا شدن 1. 10 اشعریت ر اعتزال چه می دانید مجملاً بیان کنید *

اصطلاحات ذیل را شرے کنید : ـــ جوهر ـ عرض ـ هيرلي ـ شكل بديهي الانتاج ـ كليات خمس برخي از حالات مصنف گرهر مراد به حیطهٔ بیا_{ل .8} بیآرید *

عناصر بسیط بر چند گرنه است * بتفصیل ر تشریم بیان نمالید

وقائع ايام محاصرة قلعة حيد رآباد مسمى به كلكنده 4. (قاریخ چهاردهم رجب) را بعبارت سادهٔ خود بنویسید *

خلاصهٔ عبارت ذیل را در فارسی سادهٔ خود بنگارید و در 10 بفرماليد اين راقعه از كدام مقام نسبت دارد *

" ازان حركت كه چشم كواكب را در حدقة تدرير حيرت. نشاند جنس عرض را برنوم جوهر تقديم بالشرف لازم آيد و-باین سند که در اتمام نردبان یک زینه درمیان مانده بر مذهب نظام که به طفره قائل ست برهان سلم مسلم شد - حاضران پسند. سریدای دل را بر مجمر عقیدت انشاندند ر ناظران آیة ''رُ الْ یُکادُ'' تا ''اله لَمجنون'' خواندند '' *

SECOND HALF

Examiner-Dr. A. SATTER SIDDIQUI The questions are of equal value

Answer ANY FOUR questions

جراب بيارسي بفريسيد

ملمی بابا چه طور در دست ترکمانان افقاد و اسباب دلاکی ₁ او چه طور بکار آمد - بیان نمائید * کنگاش حاجی بابا با خریش رقلیان فررشی را بیان نمائید * .2 معانی الفاظ رفقرات مذکورهٔ ذیل را شرح دهید : — .8 خواستاری - عرزهٔ الوثقی امیدراری - کشیدن توتون - باری برای خدمتگذاری بخاکیای حضرت شهریاری عرضه داشتم - قاطرهی - در شریعت دیت خدشه رانص صریم نیست - ارزق پرش - رتق رختی - شایکان - رُلا تَحْسَبُنُ الَّذِیْنُ قُتِلُواْ فِیْ سَبِیْلِ اللهِ آمُواتًا *

ترکیب آدمی از روح و جسم را بیان کنید - و الم و راحت . 4 متعلق بانها است نیز تحریر نمائید *

قاعدهٔ کلیه در معالجهٔ (مراض نفسانیه چیست (۵) بر رجه (۵) بر رجه (۵) بر رجه (۵) بر رجه

30

FOURTH PAPER

The figures in the margin indicate full marks

FIRST HALF

Examiner—MAULVI ISHAQ

1. Trenslate into English any two of the following:-
(a) خطی که در دررهٔ ساسانی معمول بوده ر کتب ر

کتیبه های آندوره را بدان نگاشته اند بغط پهلوی معروف است
پهلوی چذانکه دیدیم نام مهمترین زبانهای دررهٔ ساسانی بوده
رلی معققین غالباً این کلمه را فقط برای خطه دررهٔ ساسانی

استعمال می کنند و زبان آندوره را بیشتر فارسی رسطی میگویند
کتیبهٔ مهمی که از دروهٔ ساسانی باقیمانده کتیبه ایست که اردشیر

بابکان موسس این سلسله به تقلید اجداد هخامنشی خود در

رری تخته سنگی در فارس نگاشته و آن بدر قسم پهلوی کلدانی

ر دیگری را پهلوی ساسانی گویند نوشته شده و با ترجمهٔ یونانی

ده دماغ ما مانند چراغی است که زندگی ما را روش میکند ازین رو کسانیکه گرفتار ناخرشیهای دماغی هستند مانند ماند دیرانه ها و ابله ها بدبخت ترین و سزارار ترین مردم بدلسوزی می باشند البته این چراغ بدن روغن می خواهد و اگر روغن نریزم در اندک زمان بی نور شده و کم کم خاموش میشود درسها و تعصیات از یکطرف و قرای دماغی ما را بکار می انداود پرورش میدهد بزرگ میکند و اما از طرف دیگر نیز آن قوا را که بمنزلهٔ روغن چراغ هستند بمصرف می رساند و اگر ما جای آن را پر نکیم و آن قوه ها را تعمیر ننمائیم بزودی بدن ما ضعیف و علیل می شود و چراغ عمر ما خاموش می گردد *

وی عرنی در استحکام کلام و تسلسل مضامین در شعرای قصیده گو کم نظیر بلکه میشود گفت بی نظیر است هر شاعری که بخواهد در یک مضمون تسلسل قایم کند و اشعار متعدده دران بگوید عموما یکی در شعرش خوب بیرون میباید و باقی زرزکی ازین جهت اساتذه عقب تسلسل مضامین فرفتند مگر نظامی در مثنوی خوب از عهده بر آمده در یک مضمون اشعار بسیار یکدست بلیغ گفته عرنی تسلسل مضامین را در قصیده دنبال کرده و خوب از عهده بر آمده و اغلب مضامین متعدده مناسب را همچنان پهلوی هم با استحکام کلام جا داده که معلوم می شود یک مضمون است در چندین شعر آمده برای مثال اشعاری از قصیده مشهور او که در منقبت حضرت علی است نقل می کنم هقصیده مشهور او که در منقبت حضرت علی است نقل می کنم هقصیده مشهور او که در منقبت حضرت علی است نقل می کنم ه

2. Translate into English, adding notes where necessary :-

ایرانیان که فرکیان آرزر کندد باید نخست کارهٔ خود جستجو کنده مرد بزرگ باید و عسزم برگ تر تا حل مشکلات به نیسرری او کنند در اندلس نماز جماعت شود بیا در قادسیه چرنکه بغونها رضر کنند شما شد پاره پردهٔ عجم از غیمرت شما اینک بیاررید که زنها رفو کنند نسران زشت موی پریشان کشیده صف تشریع عیبهای شما مو بمو کنند آزادگی بدستهٔ شمشیر بسته اند مردان همیشه تکیهٔ خود را بدر کنند قانون خلقت است که باید شود ذلیل هر ملتی که راحتی و عیش خو کنند

SECOND HALF

Examiner-Shaikh Abu Nasr Gilani

Translate into Persian A and any one of B or C:-

50

The storm had just broke,—thunders were rolling over our heads,—the lightning flashed,—torrents of rain were pouring down with fearful noise,—there seemed to be a general commotion of the elements, when my Mariam, unveiling herself, extinguished the lamp. She had scarcely laid herself down, when we heard an unusual violent noise at the aperture in the ceiling: sounds of men's voices were mingled with the crash of the thunder; trampling of horses was also distinctly heard; and presently we were alarmed by a heavy noise of something fallen in our room and near our bed, accompanied by a glare and a smell of sulphur.

'Tis a thunderbolt, by all that is sacred ! Oh, Heaven protect us !'

cried I. 'Fly, my soul, my wife, escape !'

В

I perceived a Persian horseman, bearing a female behind him, and making great speed through a gien that wound nearly at the foot of a more elevated spot, upon which I was standing. The female evidently had been placed there against her will, for as soon as she perceived me she uttered loud shrieks, and extended her arms. I immediately flew down the craggy side of the mountain, and reached the lowermost part of the glen in time enough to intercept the horseman's road. I called out to him to stop, and seconded my words by drawing my sword, and putting myself in an attitude to seize his bridle as he passed. Embarrassed by the burden behind him, he was unable either to use his sword or the gun slung at his back, so he excited his horse to an increased speed, hoping thus to ride over me; but I stord my ground, and as I made a cut with my sabre, the horse bounded from the road with so sudden a start, that the frightened woman lost her hold and fell off.

C

Derveesh Seffer is esteemed one of the best reciters of poetry and tellers of tales in Persia; and there is no country in the world where more

value is placed upon such talents; he who possesses them in an eminent degree is as certain of fortune and fame as the first actors in Europe. Derveesh Seffer, who is honoured by the royal favour, has a very melodious voice, over which he has such power as to be able to imitate every sound, from that of the softest feminine to the harshest masculine voice. The varied expression of his countenance is quite as astonishing as his voice and his action is remarkably graceful, and always suited to the subject. His memory is not only furnished with an infinite variety of stories but with all the poetry of his country; this enables him to give interest and effect to the most measure tale, by apt quotations from the first authors of Persia.

FIFTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Maulvi Shah Kalimur Rahman, M.A.

ONLY FOUR questions are to be attempted

- 1. (a) Explain the significance of کنایه , مجاز مرسل and عند and عند . (b) Illustrate, with examples, the difference between توزیة and توزیة
- Define and illustrate the following figures of speech : براعة استهلال ارصاد لف ر نشر تلميم توشيم -

What is تجنيس ? Mention its different forms with examples.

4: Define :--

5. State the principal rule or rules on which the scansion of the Persian poetry is based.

Oτ,

Scan the following lines and name the metres:-

SECOND HALF

Examiner—Dr. A. SATTAR SIDDIOI

ONLY FOUR questions are to be attempted

- What do you know of the Avesta, Zand, Pazand, and Pahlavi?
 What relationship does the Persian language bear with Sanskrit and Prakrit? Illustrate your answer with examples.
- 3. Give the cardinal numerals in Persian with their Sanskrit equivalents and explain the differences between the Persian and Sanskrit forms by stating the laws of the interchange of sounds governing the forms of words in question.
- 4. Explain the etymology of خوک , ماه , ماه , ماه , برشكال , كاه , ماه , ناخن , آهن , آمله , زنجبيل , داغ , آشتي
 - 5. Write notes on the following words:-

چوکنده ی رسبق رکمند ربیزار رحاشا رجلوه رتماشا گرم سوت (چوكندى شكوهش اكر سايه افكند in the hemistich) ، دسینا ؟ (که گرمس از لباس گرم سوت افزرن نمی گرده ش) . کچری ایام

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner—Aga Muhammad Kazim Shirazi

Answer ANY THREE of the following

- 1. To what extent did the Arab conquest of Persia influence the life, the language, the literature, and the thought of the Persians?
- 2. Describe briefly the development of religious and philosophical literature in Persian.
- 3. Give the origin and development of Sufi literature in Persian, and mention some of the most important Sufi Persian poets, giving a short biography of some of them.
- 4. How would you class and characterise Avicenna as a philosopher and a poet?
- 5, Discuss the characteristics of early and modern Persian poetry as regards form, style and subject.
 - 5. Write short notes on :-

 - (a) Ikhwanu's Safa. (b) Mafatih'ul 'Ulum.
 - (c) The Fibrist.

SECOND HALF

Examiner-M. FIDA ALI KHAN

The questions are of equal value

Attempt any FOUR of the following questions

- 1. Prove and illustrate the following statement:-
 - 'The Saljuq Period is the Augustan Age of Persian literature.'
- 2. How do you account for the strange fact that despite the Mongols' vandalism and general aversion and hostility to all letters their rule actually proved more favourable to the production of historical literature than any other period of Persian history? Name and describe some of the best known historical works written during this period.
- 3. A larger number of Persian poets came to India during the Safavi rule than at any other time of Persian history. Mention the causes which led to this exodus. Name some of the most renowned among these emigrants, with brief biographical notices of at least four.
 - 4. Whom do you consider the greater patrons of arts and letters—he Safavis or the Qacharis? State reasons in support of your view.
- 5. How are the national awakening of Persia, and the patriotism born of it, affecting and moulding the present day Persian literature?
- 6. Of Akbar, Jahangir, and Shahjahan, who was the greatest patron of Persian arts and literature? State facts in support of your contention.

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner—Dr. M. Z. Siddiqui, M.A., Ph.D.

The questions are of equal value

1. Discuss :-

'The success of Muhammad was, mainly, due to his attractive personality and the intrinsic value of his teachings

Describe and discuss the causes of the civil war after the Caliphate of 'Uthman and its effects on the future history of Islam.

2 Compare 'Abdul Rahmān I of Spain with al-Manşūr, as a founder and builder of an empire.

Or.

Compare Spain under 'Abdu'l-Rahman II with the Eastern Islamic empire under al-Mamun.

3. Give a brief sketch of the career of Ahmad b. Tulun and of the rise and fall of the Tulunides in Egypt.

SECOND HALF

Examiner—AGA MD. KAZIM SHIRAZI The questions are of equal value Answer any four of the following questions

1. State and discuss the causes of the easy conquest of Persia by the Araba.

- Give a short sketch of the rise and fall of the Ghaznavides.
- 3. 'To the Safavi Dynasty belongs the credit of making Persia a nation once again.' In what sense was the Safavi movement nationalist?
- 4. Sketch the careers of Humayun and of his contemporary on the Persian throne. Summarise the salient features of the economic life of India in Akbar's time.
- 5. What part did the Buwayhides play in the history of Islam? Name the most important ruler of the dynasty and give a short sketch of his career-

EIGHTH PAPER

(Essay)

Examiner--DR. M. Z. SIDDIQUI, M.A., PH.D.

The figure in the margin indicates full marks.

Write an essay on any ane of the following:-

100

- (a) Contribution of India to Persian literature.
- (b) The influence of Persian culture on modern India.
- اسالش در گیتی تفسیر این در حرف است با درستان تلطف با دشمنان مدارا

INDIAN VERNACULARS—BENGALI

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner—RAI BAHADUR DR. D. C. SEN. B.A., D.LITT-

Answer Question 2 and ANY TWO of the rest

1. Discuss the principal features of the Brahminic school of Bengali poetry and the importance of Bengali folk-lore.

2. Take a bird's-eye view of the literature of the Manasa-cult in Bengal

from the 18th to the 17th century.

8. What is the relation of the Ramayana to the Jataka stories? Compers and contrast Krittivas with Raghunandan Goswami and discuss the value of the innovations introduced by Kavi Chandra in his recension of the Epic.

4. Give full accounts of the three best Moslem poets of Bengal of

the old school.

5. Analyse the poetical features and other merits of any three of the following poets :---

(c) Mukundaram Kavikankan.

(b) Bharat Chandra Rai Gunakar.(c) Ram Nidhi Gupta.(d) Dasharathi Rai.

(e) Ghanaram Chakravarty.

6. Give a full account of the contributions to Bengali literature by the most eminent workers amongst the European writers in the early years of the East India Company.

SECOND HALF

Examiner-Mr. Manindramohan Basu, M.A.

Answer ANY THREE questions

1. What was the condition of Vaisnavism in Bengal in the pre-

Caitanya period, and how was it modified by the teachings of Caitanya?

2. 'Vrndāvana was the cradle of Gaudīya Vaisņavism in the sixteenth century.' Justify this statement.

3. 'The modern Saha iyā doctrine of Bengal is an offshoot of post-Caitanya Vaisṇavism.' Either justify or refute this statement.

4. Give an account of Caitanya's travels in the South.

5. Show what Srīnivāsa or Narottama did to propagate the Vaiṣṇava

faith in Bengal.

SECOND PAPER

FIRST HALF

Examiner-Mr. Basantaranjan Ray

The questions are of equal value

FOUR questions to be attempted, including Question 1.

1. Render into modern Bengali, adding notes where necessary:-

তিশরণ ণাবী কিঅ অঠকুমারী। নিঅ দেহ করুণা শুনমে হেরী॥ তরিতা ভবজনধি জিম করি মাব্দ স্থাইনা। মধ্বেণী ভরক্ষ সুনি থা॥ পঞ্চ তথাগত কিন্দ্ৰ কেডুমান। বাহ্য কাৰ কাহিন মাআলান ॥ গন্ধ পরসর ভাইসোঁ ভাইসোঁ। নিংদ বিভনে স্থাইনা জইসো। চিত্ৰ কগ্নহার স্থণত যাকে। চলিল কাহ মহাস্তহ সাজে ৷ Or,

> তিনি ড খণ মই বাছিখ হেলেঁ। হাঁউ স্বভেলি মহাস্থৰ দীলেঁ॥ কইসৰি হালো ডোখা ডোহোরি ভাতরিখালী। ষ্তে কৃলিণ্ডণ বাবেঁ কাৰালী।

তঁই লো ভোষী সমল বিটলিউ।
কান্ধ ণ কারণ সসহর টালিউ॥
কেহো কেহো তোহোরে বিরুমা বোলই।
বিরুমণ লোম তোরেঁ কঠ ন মেলস্ট॥
কারে গাই তু কামচগুণলী।
ডোমি ভ আগলি নাহি ছিপানী॥

- প্র. Hxplain fully and refer to the context:

 স্টিল কদম্মূল ভবে নোআঁইল ভাল।

 এভোঁ গোকুলক নাইল বালগোপাল ॥

 শৈশবের নেহা বড়ায়ি কে না বিহড়াইল।
 প্রাণনাথ কাহু মোর এভোঁ ঘর নাইল ॥

 মৃছিআঁ পেলাইবোঁ বড়ায়ি লিষের সিন্দুর।

 বাহুর বলয়া মো করিবোঁ শভাচুব ॥

 কাহু বিণী সব খন পোড় এ পরাণী।

 বিষাইল কাণ্ডের ঘাএ বেহেন হরিণী ॥

 প্রমতী সব গোআলিনী আছে স্থে।

 কোণ লোমে বিধি মোক দিল এত তুখে ॥

 আহোনিশি কাহুণাঞিঁর গুণ সোঁঅরিআঁ।

 বজুরে গঢ়িল বুক না জাএ ফুটিআঁ।

 বজুরে গঢ়িল বুক না জাএ ফুটিআঁ।

 মুক্তির গুণ সোঁতির গুণ সোঁতির আঁ।

 বজুরে গঢ়িল বুক না জাএ ফুটিআঁ।

 স্বিত্তির গুণ সোঁতির গুণ সোঁতির গ্রাণ্ডানিশি কাহুণাঞ্জির গুণ সোঁতির গ্রাণ্ডানিশি কাহুণাঞ্জির গুণ সোঁতির গ্রাণ্ডানিশি কাহুণাঞ্জির গ্রাণ্ডানিশ্রাণ্ডানিশি কাহুণাঞ্জির গ্রাণ্ডানিশ্রাণ্ডানিশ্রিকালিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্র বিভাগ্রিকাণ্ডানিশ্রিকানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্রিকাণ্ডানিশ্র
- 3. Compare the language of the songs of Kāhṇupāda with that of the Srī-kṛṣṇa-kṛrtana Can you call the language of the former Old Bengali? Give your reasons.
- 4. What traces of the influence of Jayadeva do you notice in the vecables and other matters of the Srī-kṛṣṇa-kīrttana? Refer to one or two songs of the Srī-kṛṣṇa-kīrttana composed after the songs of the Gītagovinda.
- 5. Give a critical estimate of the conception of the character of Rādhā as you find her in the Srī-kṛṣṇa-kīrttana.
 - 6. Translate faithfully into English :-

ষাই ষমুনার পাণিকে আইস স্থি মোর সঙ্গে।

বস্না জলে কুস্ত ভরি**আঁ।** আসিব এ বড় রজে ॥

হেন বুলী রাধা কলসী ল**আঁ** জাএ গ্রন্থগড়ি চালে।

আলকেঁ শোভে বদন ভাহার

বেহেন কলৰ চান্দে।

13

13

আল।

কালীদহ কুল পাইল রাধা

नहेका मिश्र मगास्य ।

নান্দের পো

ষাটত ভেটিল কাজ না বৃষিদ লাজে॥ হাসিতেঁ খেলিতে গোপ নারীগণ লাগিলা ষমুনা ভীরে। কালাঞির মথ কমল দেখিআঁ क्टा ना खतिन नौरत ॥

SECOND HALF

Examiner—Mr. Nalinikanta Bhattacharyya, M.A.

The figures in the margin indicate full marks Answer Question 5 and ANY TWO of the rest

- 1. How does Vijaya-gupta indicate the date of the composition 13 of his poem? Compare the text of the poem as we get it at present with a genuine Bengali text of the 15th century A.D. and discuss how far the former can be regarded as a genuine text.
- 2. Discuss the characters of Chand, Manasa, and Behula and show how far they can be regarded as types representing the society of the period in which the poem of Vijaya-gupta was written.
- Is there any indication in Bhabanidasa's poem on Gopichandra that each of the four siddhas - Mīnanātha, Gorakşanātha, Kanufā, and Hadifa—had a poem recounting his exploits? Can you identify and of these poems? Which one of these poems was the most popular? How many versions of this last are known to you?
 - 4. Discuss the age and authorship of Goraksa-vijaya.
- 24 Annotate and explain passage C and either A or B, writing philological notes on the words underlined :-

A

পাইক মাঝি এড়ি গেল নৌকা রহিল পড়ি। আপনে ডুপালা নৌকা কি দোষ কাণ্ডারী। বিষাটে ছাপাই নৌকা বসি রৈছ স্থা। ञ्चाहेन नका रम्ना नही हिन नुकि॥ শুকু শীননাথ ভুন্ধি কি বলিব আর। ডালাইতের হন্তে ভূদ্মি সপিলা ভাণ্ডার। বৈশ্চের গোরেড দিলা পছরি উন্মুর। বিলাল পছরি দিলা ঘন পাত্র হও।।

В

সপ্তমে কহিরে শুন গুরুর বিচার।
সংসার অসার জান শুরুমাত্র সার॥
ভিন শুণ প্রমাণ কারণ মহাশয়।
ভাহার সমান গুরু জানিয় নিশ্চয়॥
ভানাঞ্জন জালে শুরু সোবর্ণের মতে।
ধন্দ পথ ভাঙ্গি শুরু দেখাইল পথে।
চমক উপরে খেন পাণর ঘসয়।
দীপ্তিমস্ত অনল যে হেন নিকলয়॥
ভক্ম মধ্যে হেন মতে আছে নিরঞ্জন।
শুরুপদে ভক্তি করি করহ দর্শন॥

 \mathbf{C}

পরাণ আমার <u>সোভেরে</u> দিয়া,—
আমার ভাসাইলা কোন্ ঘাটে!
তারার তলে সদাই চলে নিশীপরাভের ধারা;
সঙ্গে সাথী নাইক বাতি, নাই কুল নাই কিনারা!
অকুলের কুল গো
দরিষার সাগর গো
আর কয় বাঁকে পাইমু ভোমায়
আমায় লওগো <u>আগাইয়া</u>।

THIRD PAPER

FIRST HALF

Examiner-RAI BAHADUR PROF. D. C. SEN. B.A., D.LITT

The questions are of equal value

Answer Question 8 and ANY TWO of the rest

- 1. Where does Kavikankan adhere to the standard of the indigenous school of Bengali poetry and where does he deviate from it?
 - 2. Analyse any three of the following characters :-

Kalketu, Vasunai, Maniktara, Chandravati, Kanchanmala of Dhopar Path, Munir the snake-charmer, Tinkari Kaviraj, Murari Sil, Queen Kamala, and Kaji Munif.

- 8. Explain any four of the following with reference to the context:-
 - (a) বুক শোভে ব্যাজ নথে, অলে রাঙ্গা ধৃলি মাথে
 শিশু মাঝে বেমন মোডল।
 - (b) পাইরা বীরের সাড়া, প্রবেশে ভিতর পাড়া, মাংসের ধাররে দেড় বুড়ি।
 - (c) মনে মনে মহাবীর করেন যুক্তি। ধন্বড়া লয়ে পাচে পলায় পার্বড়ী ॥
 - (d) ছিঁড়া কানি পিঁধা রে ভার ছিঁড়া কানি পিঁধা। ঘুরিয়া ঘুরিয়া ফকির বাজার সারিন্দা॥ কটা ভাহার মাথার চুল লখা মোচ দাড়ি। সারিন্দা বাজার ফকিরা চোথের জল ছাড়ি॥
 - (e) থেকান খাইয়া পড়িলে জমিনে মায় তুল্যা লইড কোলে রে। এখন রিদরে বিধ্লে ছক্তিছেল কেউ না দেখে রে॥
 - (f) আমার না মাঞ্ব মাও রে, আরে ভালা, বুকের কলিজা। আমার না মাঞ্র মাও রে, আরে ভালা, সাক্ষাং দশভূলা। আমার না মাঞ্র মাও রে, আরে ভালা, তীর্ধ বারাণসী। আমার না মাঞ্ব মাও রে, আরে ভালা, দেবের ভুলনী।
- 4. Where does the difference between the ballads and the Gitikathas lie? Illustrate your answer by a reference to Kajalrekha and Kanchanmala on the one hand and Mahua and Malua on the other.
- 5. (a) Give an account of the life and works of Mukunda Ram. Why is he called a poet of the transition period in Bengali poetry?

 (b) Give an estimate of the literary value of the ballad of ETSICS.

SECOND HALF

Examiner-MR. SAILENDRANATH MITRA, M.A.

The figures in the margin indicate full marks.

1. Either,

Attempt a comparative study of the বেশবাদ্বৰ and the ব্ৰক্ষেক্, with special reference to (a) conception of theme, and (b) rapprochement of characters.

Ot,

Compare Madhusudan and Hemchandra as poets, noticing the peculiarity of method followed by each in handling his theme, together with your observations on the general execution of the kāvyas.

10

2. Examine the dramatic touches and situations, if any, in either the বেৰবাৰ্থৰ or the ব্যাহার.

Either, 10

10

12

Show how the rasas have been brought to play in the stym according to the psychological necessity of situations.

07.

Give, in some detail and with illustrations, an estimate of the dramatic devices employed in the arga

- 4. Explain, with reference to the context, any one of the following extracts, clearing allusions, figures of speech or traces of influence, wherever possible:—
 - (a) ধণা অগ্নিশিখা দেখি' পতক্ৰ-আবলী
 ধায় বক্লে, চারিদিকে আইল ধাইয়া
 পৌরজন; কুলবধ্ দিলা হুলান্থলি,
 বর্ষি' কুস্থমসারে; যন্ত্রধ্বনি করি'
 আনন্দে বন্দিল বন্দা। চলিলা অজনা
 আগ্নেয়-ভরক্ল মণা নিবিড় কাননে।
 বাক্তাইল বীণা, বাঁশী, মুরজ, মন্দিরা
 বাত্তকরা বিভাধরী; হেষি' আস্কন্দিল
 হয়-বুল; ঝন্ঝনিল কুপাণ পিধানে।
 - (b) কে আছে ত্রিলো ক্যানে প্রাণী হেন জন স্থান্ত প্রবাস ছাড়ি স্থানেশ ফিরিয়া
 (কি পঙ্কিল, কিবা মরু, কিবা গিরিময়
 সে জনম-ভূমি তার) নির্রথি পূর্বের পরিচিত্ত গৃহ, মাঠ, তরু, সরোবর, নদী, খাত, তরঙ্গ, পর্বত, প্রাণিকুল, নাহি ভাসে উল্লাসে, না বলে মন্ত হ'লে
 "এই জন্মভূমি মন।" কে আছে রে, হার, ফিরিয়া স্থাদেশে পুনং না কাঁদে পরাণে
 ভেরে' শক্ত-পদাঘাতে পীড়িত সে দেশ।
 - (c) (i) রামায়ণে শুনেছিলেম, কে একজন রাক্ষস চোথে ঠুলি দিরে থাক্তো, স্ত্রীপুত্রের মুখ দেখুতো না, সেই এসে কি জন্মছে 🕈
 - (ii) লন্দ্রীর কথার শুনেছিলেয, আপনার ছেলেকে থাওরাবার জন্ম সাপ েঁথেছিল, আযারও তাই ইচ্ছে হচ্ছে। আমি মলে' এর দশা কি হ'বে।
 - (iii) কি থাওয়ায় জান ? রাঙা জলপড়া। ভাগ্যিস্ ভালয় ভালয় কেটে গেল, নইলে লোক পাগল হয়। এমন জলপড়া নয়! ভূমি যদি খাও ত জমনি ধেই ধেই করে' নাচ!

- 5. Elucidate, in your own Bengali, the central idea of any one of the following passages:—
- (a) মাত্রকে বদি আমরা সমগ্রভাবে এমনি করিয়া দৃষ্টির বিষয় করিতে পারিভাম, ভবে ভাহাকে এইরপ স্বের্য়র মভই দেখিভাম। দেখিভাম, ভাহার বস্তুপিগু ভিভরে-ভিভরে ধীরে-ধীরে নানান্তরে বিশ্বস্ত হইয়া উঠিতেছে; আর ভাহাকে বিরয়া একটি প্রকাশের জ্যোভির্মপ্তশীনিয়ভই আপনাকে চারিদিকে বিকার্শ করিয়াই আনন্দ পাইভেছে। সাহিত্যকে মামুষের চারিদিকে সেই ভাষারচিত প্রকাশমগুলীরূপে একবার দেখ। এখানে জ্যোভির ঝড় বহিভেছে, জ্যোভির উৎস উঠিতেছে, জ্যোভির্বাপের সংঘাত ঘটিতেছে।
 - (b) নর-অংশে জন্ম সেই রামনারায়ণ।
 তোমারে জননীভাবে করিলা পালন॥
 তোমার সেবায় পঞ্চপাণ্ড্ ছিল রত।
 পূজিল তোমায় রাজা বিক্রম-আদিতা॥
 অমর ৰাল্মীকি ঋষি সুমধুর স্বরে।
 রাধিয়াছে তব ষশ তিত্বন ভরে'॥
 বেদবাস মহাঋষি ভারত রাচয়া।
 প্রচারিল তব নাম জগৎ জুড়িয়'॥
 সরস্বতী-বরপুত্র কাব কালিদাস।
 তব ষশ রল্বংশে কবিলা প্রকাশ॥
 ভবভৃতি তব নাম অনাম্ম অক্ররে।
 গাঁধিয়া পুইয়া গেছে মানব-অন্তরে॥

FOURTH PAPER

FIRST HALF

Examiner-Mr. Priyaranjan Sen, M.A.

The figures in the margin indicate full marks

Write an essay on one of the following subjects:-

- 50
- (a) Western influence in the historical novels of Bankim-chandra.
- (b) Rabindranath's early writings and Western influence.
- (c) Treatment of Humanity in Bengali literature as influenced by Western culture.

SECOND HALF

Examiner-RAI BAHADUR PROF. D. C. SEN, B.A., D.LITT.

Attempt only ONE question in the form of an essay

[Full marks-50]

- 1. 'The opposition between the plain and the ornate style persistently dominated the history of Bengali Prose for almost half a century, and reached to a crisis in the two antithetical movements of the fifties, of which the genius of a writer like Bankimchandra alone could find a proper synthesis.' Discuss this statement, giving a concise sketch of the development of Bengali prose style in the first half of the 19th century.
- 2. Each of the following writers has been in his turn declared 'the father of modern Bengali Prose': William Carey, Ram Mohun Roy, Isvar Chandra Vidyasagar, Aksay Kumar Datta, Peary Chand Mitra, and Bankimchandra Chattopadhyay. Discuss the correctness of the epithet and the claims of each to such a description.
- 3. Give a sketch of early Bengali Journalism and its influence on the prose style of the period 1800-1857.

INDIAN VERNACULARS—HINDI

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner—Rai Bahadur Sukdeo Bihari Misra

Please attempt ANY THREE of the following five questions

- 1. Kindly trace the rise and development of our Hindi Prose from the earliest times right up to the period of Bhartendu Babu Harish Chandra of Benares. Also trace the development of Hindi from the ancient dialects of India together with the origin and development of those dialects from the earliest period of India. What are the first, the second, and the third Prakrit? How did the advent of the Mughal period, the religious revival of that time, and the British rule affect our Prose literature and the public ideas as reflected in that literature?
- 2. Please trace the rise and development of the Khari Boli (अहोबर्बा) poetry in Hindi from the earliest to the present times, also giving the names and main characteristics of the principal writers whom you may mention in this connection. A few illustrations also may be given.
- 3. Will you please give a brief but illuminating account of our Hindi literature before the period of Surdas? How far can this be called the Vira Gatha (क्राज्य) period of our literature? Please give reasons. What subjects and dialects did our writers mostly prefer at that time?
- 4. For about a century after Mahatma Tulsidas, our Hindi writers were mostly second rate poets and commentators. How far do you agree with this remark? Please give reasons in support of your opinion.

Also give the main characteristics of the writings of Senapati, Beharilal, Matiram, Ghanshyam, Lal Kavi (the writer of Chhattra Prakash), and Newaj, detailing as well their chief productions and the time of their writings.

5. What are the messages of Tulsidas, Kabirdas, Surdas, Vitthal Nath, Bhushan, and Deva Kavi? Name the principal productions of these writers and give the main characteristics of their writings. How did the writings of Kabirdas and Tulsidas affect the Hindu society of Northern India at the time? What is their main difference and how far can it help us in understanding the representative character of the two poets so far as the society in their times was concerned?

SECOND HALF

Examiner—MR. NALINIMOHAN SANYAL, M.A.

Attempt ANY THREE.

- 1. What were the various circumstances which combined to bring about the religious movement in Northern India in the fifteenth and sixteenth centuries, and what were the main lines into which it resolved itself? Show how it served to give impetus to the vernacular literature of the country. Name the principal literary representatives of each line and characterise the literature it produced.
- 2. Is God | निर्मुच (absolute) according to the Sufis? What relation do the Sufi poets seek to establish between God and Man? Show that the relation, as conceived by the Krishna-bhakti poets, is essentially the same, only with a slight difference. Name the principal Sufi Hindi poets and state the general characteristics of the literature they produced. Who may be regarded as pre-eminent among them?
- 3. The language of poetry should, according to Wordsworth, be the ordinary language of men. Show how far this dictum is applicable to the poetry of Jāysi, Tulsidas, and Surdas.

Show that the dialects adopted for, and the forms taken by, the works of these poets were suitable to the subjects they dealt with.

- 4. Name and describe the metres in which Tulsidas wrote his Rāmcharit-mānas, Vinay Patrikā, Gitāvali, Rāmāyan, and Kavitāvali Rāmāyan. Whence did Tulsidas derive his ideas of the metres he used in these poems? Why did the metres employed by Tulsidas and Surdas in their principal works differ so widely from each other? Could the Sura-Sagar have been written in the form of the Rām-charit-mānas?
- 5. Poetry has been defined by some as the expression of the deepest feelings of the human mind. Show how far Tulsidas, Surdas, and Keshav Das have succeeded in approaching this ideal, stating the phases of human life depicted by each. Give ample quotations in support of your statements.
- 6. Were there any other Hindi poets than Tulsidas who had composed the Rāmāyan? Why have their works remained neglected?

Name and give full descriptions of some Bhakti poets subsequent to 1700 A.D.

SECOND PAPER

FIRST HALF

Examiner-PANDIT SAKALNARAYAN SARMA

The figures in the margin indicate full marks

- उत्तम-काब्य और अधम-काब्य की विवेचना अपने पठित प्रन्थों 10 की सहायता छेकर करो । काब्य किसे कहते हैं । यह भी छिखो ।
- 2. वाच्य छक्ष्य और ब्यङ्ग्य इन अर्थों में काब्यशास्त्र किसको प्रधानता 10 देता है १ यदि काब्य में कुछ दोष हो और ध्वनि अधिक निकळती है तो उसे उसम अथवा निकृष्ट काब्य कहना चाहिये।
- 3. जायसी, चन्द्रवरदायी तथा गोस्वामीजी में किस का युद्धवर्णन 10 अधिक मनोहारी है ? इसकी मीमांसा में यह बतलाओं कि उन लोगों ने है और वीररस में क्या भेद रक्खा है ?
 - 4. (a) गहीतेग चहुवान हिंदवान रानं । गजयूथपरि कोप केहरि समानं ॥ करे रुंड मुंड करि कुंभ फारे। वरं सुरसामन्तहुकि गर्ज भारे॥१॥
 - (%) प्रीतम को पतियां छिखूं जो कहुं होय विदेश। तनमें मनमें नैनमें ताको कहासं देश॥
 - (c) जेंबत स्थामनन्दकी किनयां।
 कक्षुक खात कछु घरनि गिरावत
 छिव निरखत नंदरिनयां।
 आपुन खात नन्द्मुख नावत
 सो सुख कहत न विनयां।
 जो रस नंद यशोदा विस्पत
 सो निहं तिहुं भुवनियां।
 भोजन किर नन्द अचवन कियो
 मांगत सर जुठनियां॥
 - (d) मन पछतेही अवसर वीते । दुर्लम देह पाइ हरिपद भजु करम वचन अरु हीते । सहस्रवाहु दसवदन आदि नृप बचेन काळवळीने ॥ तुरकी अरवी हिंदवी भाषा जेती आहि । जामें मारग प्रेम का सवै सराहै ताहि ॥

इन पर्यों के अर्थ और छन्द लिखी।

20

16

16

18

SECOND HALF

Examiner-LALA SITARAM, B.A.

The questions are of equal value

Candidates are required to attempt only THREE questions

- 1. Explain fully the signification of Shabda according to Sants.

 What is Anchad Shabda?
- 2. Explain fully in Hindi any one of the following two 16 passages:—
 - (a) गगन मॅडल के बीच में जहां सोहंगम डोरि।
 सबद अनाहद होत है सुरत लगी तहूँ मोरि॥
 कवीर कमल प्रकासिया जगा निर्मल सूर।
 रैन अँधेरी मिटि गई बाजे अनहद तूर॥
 सुझ मंडल में घर किया बाजे सबद रसाल।
 रोम रोम दीपक भया प्रगटे दीनदयाल॥
 कवीर सबद सरीर में बिन गुन बाजे तांत।
 बाहर भीतर रिम रहा ताते हृटी भ्नांत॥
 - (b) रसना कहँउ जो कह रस बाता।
 अमृत वयन सुनत मन राता॥
 हरइ सो सुर चातक कोकिछा।
 बीन बंगि वेह बैन न मिछा॥
 चातक कोकिछ रहहँ जो नाहीं।
 सुनि वेह बैन लाजि हिए जाहीं॥
 भरे पेम मधु बोछइ बोछा।
 सुनइ सो मांति घूमि के होछा॥
 चतुर वेद मित सब ओहि पाहां।
 रिग जजु सावँ अथवँन माहाँ॥
 एक एक बोछ अरथ चौगुना।
 इंदर मोरि वरम्हा सिर धुना॥
 भासवती ब्याकरन सब पिंगछ पाठ पुरान।
 बेद भेद सो बात कहि तस जनु छागडि बान॥
- 3. Discuss the claim of Malik Muhammad Jaisi as the first great poet of Hindi.

4. Describe the characters of Gora and Badal as heroes of the Padmawat.

5. Describe the main points of difference between the language of the Padmawat and of Kabir ki Sakhi, bearing in mind that both are written in Eastern Hindi.

THIRD PAPER

The figures in the margin indicate full marks

FIRST HALF

Examiner-Pandit Sakalnarayan Sarma

5

15

सुरपुर अरु कश्मीर दो उन में को है सुन्दर।
 को सोभाको भौन रूप को कौन समुन्दर॥
 काको उपमा उचित देन दोउनको काकी।
 या को सुरपुर की अथवा सुरपुर को याकी॥
 यह विशुद्ध वजभाषा की कविता है कि नहीं? तीसरी पंक्ति में

यह विशुद्ध वजभाषा की कविता है कि नहीं ? तीसरी पंक्ति में कौन दोष है उसका नाम बताओ।

हम छड़ें गे और छड़ते रहें गे, क्यो न जीजान से हमसे छड़ें । धोन बैठें गे हितोंसे हाथ हम हाथ घो कर क्यों न वे पीछे पड़ें ॥ दूर की छेंगे वकेंगे वहक कर, काम के हित जो हुआ वे ही नहीं । किस तरह छेंगे खिछौना चांद का, बात है करतृत कुछ है ही नहीं ॥

इन पद्यों में कौन कौन शब्द विशेषरूप से महाविरा दिख्लाने के छिये प्रयुक्त हुए हैं उनका विचार करी। "लेंगे खिलीना चांद का" यह वाक्यांश क्या व्याकरण से शुद्ध है ?

- 3. श्रीचन्द्रावली के प्रेम पर एक निबन्ध लिखो।
- 4. हिन्दी का पहला नाटक कौन है १ हिन्दी के प्राचीन तथा नवीन 5 नाटकों की रचना में क्या अन्तर है १
- 5. रूपक, नाटक, नेपध्य, प्रस्तावना, विष्कम्भक, पारिपाश्चिक, और 10 अञ्चावतार शब्दों के क्या अभिप्राय है ?
 - 6. जुग त्ंबन की वीन परम सोभित मनभाई । 5
 छय भरु सुर की मनहु जुगल गठरी लटकाई ॥
 के कोमल भरु तीव सुर भरे जगमन मोहैं ।
 आरोहन भवरोहन के केंद्रे फलसोहैं ॥

इन पर्यों में अछंकारशब्दों के अभिप्राय किसते हुए बतकाओं ।

15

SECOND HALF

Examiner-Pandit Krishna Bihari Misra

- े पण्डित सदछ मिश्र तथा पण्डित छल्लू छाछ के गर्बो की आछोचना 10तुछनात्मक दृष्टि से करो।
- (a) उपमा, रूपक, इलेप, और समासोक्ति के रूक्षण उदाहरण के 15
 साथ छिखो।
 - (b) को जीते सिवराजसो, अव अंधक अवरंग। भूषण भनि सर्वाहे त वहि जीत्यो हो जुरि जंग॥

इस पद्य में कीन प्रधान अलंकार भूषण किन ने माना है १ अलंकार मंजूषा की रीति से यहां प्रधान अलंकार कीनसा है १

3. चिरजीवी जोरी जुरे क्यों न सनेहगंभीर
को घटि वे वृषमानुजा वे हलधर के वीर
नये विससिये लिखनये दुर्जन दुसह सभाय
आंटे परि प्रानिनहरें कांटे ली लिग पाय।
पक्षाहि तिथि पाइये वाघर के चहुं पास
नित प्रतिपून्यी ही रहित आनन ओपउजास। ३।
भजन कह्यो तासों भज्यो भज्यो न एको वार
दूर भजन तासों कह्यो सो तू भज्यो गंवार। ४।
तंबीनाद कवित्तरस सरस राग रितरंग
अनबडे बडे तरे जेबडे सव अंग। ४।

अछंकार निर्देशपूर्वक इन दोहों के अर्थ प्रकटित करो।

4. उपर्यंक्त पर्धों में कीनसी रीति तथा कीनसा गुण है ? कारण के 5 साथ उत्तर दिखी।

FOURTH PAPER (ESSAY)

The figures in the margin indicate full marks

FIRST HALF

Examiner-Mr. JAGANNATH PRASAD CHATURVEDI

Write an essay in simple Hindi on any one of the following 50 subjects:—

(a) General characteristics of Hindi literature.

(b) Describe fully 'the new influence from the West revived rather than checked the cultivation of Hindi poetry.'

(c) Raja Shivaprasad.

(d) The creators of modern High Hindi.

SECOND HALF

Examiner-Mr. Ambikaprasad Bajpat

						subjects :	
	(1) V	Vhat is	the differ	rence be	tween H	indi and Ur	du?
ıd						emphasis	

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- Discuss ne dissimilarity of Hindi and Urdu. Give examples of peruliarities of grammar and style that have come into Hindi through Urdu or Persian. Will Hindi and Urdu ever become one language?
- (2) Who were the most famous Muhammadan poets of Hindi? How far was Persian influence brought to bear on Hindi literature through their works? What do you know of the artistic standard of Hindi of Muhammadan writers? How was Hindi poetry encouraged by Mughal emperors? What is the attitude of present-day Muhammadans towards Hindi?
- (3) Was modern High Hindi developed from Urdu by the exclusion of Persian and Arabic words and the substitution of those of pure Indian origin, Sanskrit, or Hindi? What do you know about Gorakhnath? Was he the first prose writer of Hindi? Compare his Hindi with that of Lallulali.
- (4) Is Sūfism another name of Adwaitavád? Was Moulana Room aware of Adwaitavád when he wrote his famous Masnavi? Was Kabir a Sūfi poet? If not, who is the first Sūfi poet of Hindi and when did he flourish? Give the names of Sufi poets after him with dates.

INDIAN VERNACULARS—ORIYA (PRINCIPAL)

FIRST PAPER

The figures in the margin indicate full marks

Attempt any THREE from EACH half

FIRST HALF

Examiner-Mr. Godavaris Misra, M.A.

- 1. Give an account of the life and writings of Sarala Das, especially stating the part played by him in the formation of the Oriya nation.
- 2. "Sanskrit dominated the early poetry of Orissa in the matter 161 of its form and metre." Examine this statement and illustrate your views with reference to poetry of the period from 1430 to 1568.
- 3. Give an account of the life of the author of the great Oriya Bhagabat and an elaborate estimate of the influence of his life and writings upon the life and character of the Oriya people.
- Give an account of Oriya Chhanda. How far can you reconcile with it the views of Mr. Manomohan Chakrabarti about the form and metre of Oriya poetry since the earliest times?
- 5. Indicate the extent of indebtedness of the Oriya literature to 16 the present district of Ganjam.

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SECOND HALF

Examiner-MR. P. R. SEN. M.A.

1. Give an account of the most famous book of Abhimanyu Samanta Sinhar. Indicate the influence of former poets upon him. 161 Also give an account of his life and an estimate of the value of his works and contributions to Oriya literature.

2. State and explain the influence of Chaitanya upon Oriya

literature

3. "But for the rajahs and members of their families, the course and progress of Oriya literature would be very different from what they have been." Discuss this fully, giving examples in support of your views, where necessary.

> שניש לשבי של שיצ עיני שאורי 45 stone middle cited in which स मार्ना वर्ण व नर्न שי שני שיל ליל שוו נילעני

Justify this statement with elaborate reference to the famous works of

Dina Krisna.

4.

5. "With the advance of time literature proceeds from the 161 simple and natural into the complex and artificial forms but to revert again into the original state." Explain to what extent this statement is applicable to Oriya literature.

SECOND PAPER

Examiners— { Mr. Binayak Misra, M.A., Nilkantha Das, M.A., M.L.C. The questions are of equal value.

1. Write a short note on the Koili lyrics as a distinct literary species with a special detailed reference to the Keśava Koili or the Artha Koili.

2. Comment on the faithfulness of Saralā Dāsa's version of the Mahābhārata to the original Sanskrit Epic.

3. Explain the following passages with reference to the context :-

क गैष्ट्रव् वाध्य । यह स्व सम्पाहिल्स था छ। ତତ ଷଣେ ମାହିଲ୍ ହେ **ସମ୍କ**ର ଟିଭି । पक्कि याश्विश ज्वाम के करी घुर । न्त्रभग् नम्भ हिंचा में हा न के निष्ण । बार्ह्स हिंदी वाज्ञार् यह द्ध हिंदी। इस्केर क्षित्र वील्य स्वामिती। के कहि दे हामीयानम क्या। अहित्य हार हि महास्या। कि नहीं कि निर्माण क्या। अहित्य हार हि स्वर्मानया। कि निर्माण की निर्माण कि कि निर्माण कि निर्

- 4. Narrate the story of Tapati and Samvarana in your own Oriya.
- 5. Write an appreciation of Dina Krisna Das as a poet, illustrating his characteristics by quotations from his Rasa-Kallola.

मह्त् अन चारत त्या हमास कर।

क्रमा श्रीवृष्ण भारत (या हमास कर।

क्रमा श्रीवृष्ण भारत (या हमास कर।

क्रमा श्रीवृष्ण भर भारत हुई त्या क्राह्मण भारत ।

पाह्य प्रकी त्यान ह्यान भारत ।

पाह्य प्रकी व्यान ह्यान भारत ।

प्रमाह्य प्रकी व्यान ह्यान भारत ।

प्रमाह्य व्यान व्यान व्यान ।

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प्रमाह्य व्यान व्यान व्यान व्यान व्यान ।

प्रमाह्य व्यान व्यान व्यान व्यान व्यान ।

प्रमाह्य व्यान व्यान व्यान व्यान व्यान व्यान ।

प्रमाह्य व्यान व्यान

Explain the above lines and comment on their form.

THIRD PAPER

The questions are of equal value.

FIRST HALF

Examiner-Mr. Godavaris Misra, M.A.

1. Compare Upendra Bhan's and Abhimanyu Samanta Sinhar in point of rhetorical composition, illustrating your statements from the recommended texts.

2. Indicate to what extent Abhimanyu Samanta Sinhar's Bidagdha Chintamani is modelled on the Sanskrit work Bidagdha Mādhaba.

Or,

Bidagdha Chintamani is said to be the best work of Abhimanya Samanta Sinhar. Do you agree? Give reasons for your answer.

3. "In the Chanson literature of Orissa, Baladev Rath Kavi-Suryya occupies a higher place than Upendra Bhanja." Discuss.

occupies a nigner place than Upendra Bhana. Discuss.

"The poets of the early period of the British Rule may all be said to be the successors of Upendra Bhan; a in the field of literature." How far is: this remark applicable to the case of Baladev Rath Kavi-Suryya?

- 4. Explain any three of the following giving the context:-
- भाषी वश्वी क्रियुक्त न मझक्रिया दिया ।

 श्वाकी वश्वी क्रियुक्त न स्थित क्रिया क्रया क्रिया क्रया क्रिया क्

- (त) रहे के बहुत श्री के के विश्व के वि

5. Trace the continuity of Mediaeval Oriya literature, from Upendra Bbanja to Baladev Rath Kavi-Suryya through Abhimanyu Samanta Sinhar, marking off the characteristics of each in relation to one dominant literary note.

SECOND HALF Examiner—Mr. NILKANTHA DAS, M.A., M.L.C.

1. "The racy style" of Fakirmonan Senapati is said to have demonstrated "how forcible the pure Oriya language is in the hand of a master." Justify or criticise this comment in reference to Fakirmonan's Lachhma.

2. Write a critical note on Basanta-Gāthā in relation to the ether

works of its author

3. Radhanath "has lengthened his poem" mahājātrā." by some allegorical stories which teem with didactic lines."—Do you think this remark justified? Support your answer with definite references to the text.

4. Explain :--

द्विभ हिल्लाम मूर्य प्र- नागी - द्विष । द्विभ हिल्लाम मुर्ग निष्ट । ज्यादा। वर्षे हा ज्यादा। वर्षे वर्षे वर्षे वर्षे।

७ महित बर्म महित बर्म महित वाहा वाहर वाहरी वाहर वाहरी वाहर वाहरी वाहर वाहरी वाहर वाहरी वाहर वाहरी वाहरी वाहर वाहरी वाहरी वाहर वाहरी वाहर वाहरी वाहर वाहरी वाह

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FOURTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-MR. P. R. SEN, M.A.

Attempt ANY THREE questions.

1. To what extent has reference been made to inanimate Nature in Oriya poetry of the twentieth century and in Oriya poetry of the period preceding the twentieth century? If there be more abundant reference in one of these periods than in the other, state its cause. Exemplify your answer, if possible, with quotations, or by references.

2. Contrast Oriya drama of the last two decades with that of the period preceding them. Illustrate the extent to which the influence of English drama is visible in Oriya drama of the last two decades.

8. Name the first important piece of Oriya epic poetry. Illustrate 163

the influence upon it of Milton and other English epic poets.

4. State and exemplify the influence of English rhyme and rhythm

upon modern Oriya poetry.

5. "Modern Oriya prose is not only mostly a product of men 168 versed in English prose but is also to some extent a copy of the latter."

Examine this statement.

SECOND HALF

Examiner-Mr. NILKANTHA DAS, M.A., M.L.C.

Write an essay on one of the following subjects:—
1. The extent of Upendra Bhanja's influence on Abhimanyu Samanta Simhār.

2. "All the works of Upendra Bhanja are but illustrations of rhetorical art."

3. The poetic technique of Upendra Bhanja: how far, if at all. it influences modern Oriya poetry.

INDIAN VERNACULARS—URDU—PRINCIPAL

FIRST PAPER

Examiner—Maulvi M. D. Ishaque, M.A.

The questions are of equal value. Attempt any FIVE.

1. "The first poet of the Urdu language who stands out with any distinction is Amir Khusraw." Justify the statement.

2. Describe the importance of Marsia-writing in the development of Urdu Poetry. Whom do you think to be the best Marsia writer? Give your reasons for the same.

8. "Mir's fame rests on Ghazals and Masnawis, and Sanda is regarded

as the master of Qasidas and Satire." Discuss.

4. Compare and contrast the Lucknow school of poetry with the Delhi school, pointing out differences in style, diction and sentiment.

5. What part does the plateau of Deccan play in the history of Urduliterature? Where was Wali actually born?

6. When did the Drama-writing in Urdu originate? Do you think it

has already perfected as an art by itself?

SECOND PAPER

Examiner-Shams-ul-Ulama Maulvi Hidayet Hossain, KHAN BAHADUR

The figures in the margin indicate full marks.

20

1. Comment on the styles of Wali and Mir Taqi, followed in their poetry, comparing carefully their views on Sufiism.

2. Give your own opinion in regard to the greatness of Sawda as 15

a Qasida writer.

Expand the idea contained in the following verse:-

3. Translate, into English, either of the two, adding notes where 15. necessary :-

جان کی مذت انکے دماغوں سے کب اُٹر (a) خاک رہ اسکے جذکے کفس کا عبیہ ہو چھاتی قفس میں داغ سے هو کیوں نه رشک باغ جوش بہار تھا کہ ہے آئے اسیہ، ہو

یاں برگ کل آزائے ھیں پرکالے جگر جا عندلیب تو نے مسری ھمصفیسر ھو ھوٹے ھیں میکدے کے جوان شیخ جی برے پہلے درگذر یہ کرتے نہیں گو کہ پیسر ھو کس طرح آہ خاک مذلت سے میں آٹھوں آفسادہ تر جو مجھے سے مرا دستگیسر ھو

سہسر هر ذرہ میں مجهکر هی نظران هے که نہیں تم بهی تک دیکھو تو صاحب نظران هے که نہیں پیاس ناموس مجیع عشق کا هے اے بلبل ورنده یان کونسا انداز نغیان هے که نہیں آگے شمشیر تمہاری کے بهسلا یه گردن موسے بارکتر اے خرش کمران هے که نہیں دل کے پرزرن کو بغل بیچ لئے پهرتا هوں کچهه علاج انکا بهی اے شیشه گران هے که نہیں دیکھا میں قصر فریدوں کے در آرپر اگ شخص دیکھا میں قصر فریدوں کے در آرپر اگ شخص حلقہان هے که نہیں

4. What is the theme of Fasanai-Ajaib? When, by whom, and at whose instance, was this book compiled?

Ot.

Compare the styles of Ra'ab Ali Beg Suroor, and Sher Ali Afsos, illustrating your views with original quotations.

5. Write short notes on any four of the following:— 20 ملكه مهرنكار - انجمس آرا ـ جان كلكسرائست ـ كود ندا - حاتم طائى - شهزاده منير-

6. What were the seven conditions to be fulfilled by the suitor of Princess Husn-Banu? By whom and with whose particular help were these fulfilled?

Or.

Describe carefully the part played by the staff of the College of Old Fort William in the development of Urdu literature.

THIRD PAPER

Examiner-Maulvi M. D. Ishaque, M.A.

The figures in the margin indicate full marks.

FIRST HALF

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- 1. Comment on Hali's criticism of Urdu ghazals that you come across in his Muqaddama-i Shi r-o Shā'ri.
- 2. Compare and contrast the style of Hali and Sir Syed Ahmed as founders of the new School of Urdu Literature.

3. Either.

Whom do you think to be the best Urdu nover-writer? Has 15 Sarshar any superiority, over Sharar?

Agha Hashar is called the "Shakespeare of India"—justify this opinion with careful comment on the dramatic works of Hashar.

SECOND HALF

- 1. Translate into English, any two of the following, adding notes where necessary:—
 - بس هجوم ناامیدی خاک میں ملجائیگی (م)
 یه جو ایک لذت هماری سعی بے حاصل میں ھ
 گرچه ھے کس کس برائی سے ولے با اینهمه
 فکر میرا مجهه سے بہتر ھے که اُس محفل میں ھ
 دیکھنا تقریر کی لذت که جو ارسنے کہا
 میں نے یه سمجها که گریا یه بهی میرے دلمیں ھ
 - غم اگرچه جان هے یه کہان بچپن که دل فے (ه) غـم عشق گر نه هوتا غـم ررزگار هوتا کہوں تجهه سے میں که کیا هے شب غم بري بلا هے مجھے کیا بـرا نها مرنا اگر ایک بار هوتا رگ سنگ سے تبکتا وہ لہو که پهر نه تهمتا جسے غـم سمجهه رهے هو وہ اگر شوار هوتا
 - قاصدوں کے پاؤن تورے بدگمانی نے مرمی (۵) خط دیا لیکن نه بتلایا نشان کوے درست فرش کل بستر تها اپنا خاک پر سرتے هیں اب خشت زیر سر نہیں یا تکیه تها زانوئے درست

اس بلائے جانے آتش دیکھٹے کیرنکر نبہ دل سوا شیشے سے نازک دل نازک خوائے درست

2.

Either.

Account for the fame and popularity of Iqbal as one of the 18 greatest poets of the modern age.

Or.

Was Ghalib superior to all of his contemporaries in regard to the philosophical aspect of Urdu ghazals? Discuss, quoting from the

3. "The great merit of Atish is that he portrays the various emotions in elegant and attractive phraseology." Discuss this. 14

FOURTH PAPER

Examiner—Aga Md. Kazım Shirazi

The questions are of equal value.

Attempt any FIVE

1. Account for the origin and development of Prose-writing in Urda

literature. When did it really begin?

2. To what extent did the Hindus contribute to the development of Urdu literature? Whom do you think to be the best Prose-writer among them?

3. Write short notes on the following:—Sher 'Ali Afsus; Darya-yi Latafat; Baital Pachisi; Nihal Chand; and Rajah Ali Beg Surur.

4. Name the three best Prose-writers in the Second Period of the

development of Urdu literature and give a short account of each. State reasons for your choice.

5. What are the results of the English influence on Urdu literature?

Write what you know of the Aligarh movement.

6. Discuss the merits of Iqbal as a Poet and a Philosopher.

7. When and how did the Drama originate in Urdu? Trace its gradual development.

INDIAN VERNACULARS—BENGALI (SUBSIDIARY)

FIFTH PAPER

Examiner-Mr. Tamonaschandra Dasgupta, M.A.

The questions are of equal value.

- 1. Explain any two of the following passages, with reference to the context, either in English or in Bengali:—
 - (ন) অনেকে একত হইয়া গ্রাষ্য লোকেবা দেখিতে আসিল বে, কিব্লপ আছ আকাশ হইতে নাৰিয়াছে। ছইজন ধৰ্মবাজক বলিলেন, বে, ইহা,কোন

শলৌকিক জীবের দেহাবশিষ্ট চর্ম। গুনিয়া গ্রামবাসিগণ তাহাতে ঢিল মারিছে শারম্ভ করিল, এবং খোঁচা দিতে লাগিল।

- (b) একদিন রাজর্ষি নদীতীরে বসিয়া উপাসনা করিতেছেন, এমন সময়ে ভথার এক হরিণী অলপানার্থ সমাগত হইল। ঠিক দেই সময়েই কিছু দূরে একটি সিংহ প্রবল গর্জন করিয়া উঠিল। হরিণী এত ভীতা হইল বে, সেপিপাসা শাস্তি না করিয়াই, নদী পার হইবার জন্ত উচ্চ লক্ষ্ণ দিল।
- (c) খেতে চায় ? তা' বটে ! যেমন চায়। তার তেম্নি বলদ । খড় জোটে না, চালকলা খাওয়া চাই ! নে নে, পথ থেকে সঙিয়ে বাঁধ্। যে শিঙ্, কোন দিন দেখ্চি কাকে খুন ক'র্বে। এই বলিয়া তর্করত্ব পাশ কাটাইয়া হন্ হন্ করিয়া চলিয়া গেলেন।
 - (d) কাহার কঠের মুকুতার মালা

 ছিঁ ড়িয়া পড়িল শতধা হ'রে,
 কার হাদিশোভা বিকচ কুহুম

 শুকাইয়া গেল হাদর ছুঁ রে—

 দেখিবারে তাহা মুহুর্ত্তের তরে

 থামিল না ওর অন্তের পথে,
 অই যায় চলে, অই যায়,-যায়

 সৌরভাতিময় ফ্রুডার রথে।
- 2. Summarise the arguments contained in the article "আমিব ও নিরামিব ভোকন" by Chunilal Bose.
 - 3. Give the substance of any two of the following passages:-
 - (a) দাও আমাদের অভয়মন্ত্র,
 অংশাকমন্ত্র তব!
 দাও আমাদের অমৃত্রমন্ত্র,
 দাও গো জীবন নব!
 যে জীবন ছিল তব তপোবনে,
 যে জীবন ছিল তব রাজাসনে,
 মৃক্ত দীপ্ত সে মহাজীবনে
 ছিত্ত ভরিয়া লব!
 মৃত্যুতরণ শক্ষাহরণ
 দাও সে মন্ত্র তব!
 - (b) এই ত সে প্রিরতম মম জন্মস্থান, যার তরে ছিল সদা ব্যাকুলিত প্রাণ, যার শ্রীভিষরী সৃত্তি চারুদরশন, ক্রিডাম এতদিন চিন্তা অমুক্ষণ:

আজ তার সৈই মুর্ত্তি নির্মণ নয়নে,
মরি কি বিমল ক্ষণ উপজিল মনে—
কাদম্বিনী বর্ষার সময়ে ধেমন,
নিয়ত সলিলে করে ভূতল সেচন!
আজ এ জনমভূমি আমার তেমন,
করিছে অস্তরে কত স্থা-বরিষণ!

- (c) ছুইধারে বন্ধুর ছুর্গম দগ্ধ বক্তবর্ণ উচ্চিরিভ্রেণী, মধ্যে সন্ধীর্ণ মরুপথ, বোঝাই-করা উদ্ভের শ্রেণী চলিয়াছে; পাগ্ডি-পরা বণিক্ ও পথিকেরা কেছ বা উটের পরে কেছ বা পদত্রজে, কাহারো হাতে বর্ধা, কাহারো হাতে সেকেলে চক্মকি-ঠোকা বন্দুক; কাবুলি মেঘমন্দ্রবরে ভাঙ্গা বাংলায় স্থদেশের গল্প করিছ, আর এই ছবি আমার চোথের সন্মুখ দিয়া চলিয়া যাইত।
 - 4. Amplify the idea contained in any two of the following passages:-
 - (a) দেব যদি হয় বাম, সিদ্ধ নহে কোন কাম, যজ্ঞ হৈল সংহার-কারণ।

তখন জানিল মন.

জিনিতে নারিব ব্লণ,

যথন পডিল শক্তঘন॥

(b) যশোলাভ-লোভে আয়ু কত যে বায়িলি, হায়,— কব' তা' কাহারে ?

সুগন্ধ-কৃত্যুৰ্য-গন্ধে

व्यक्तकोठे यथा थाय,

কাটিতে ভাহারে :--

মাৎসৰ্য্য-বিষ-দশন

কামড়ে, রে, অমুক্ষণ---

এই কি লভিলি লাভ, অনাহারে অনিদ্রায় ?

(c) দৈক্তের মাঝে আছে তব ধন,
মৌনের মাঝে রুয়েছে গোপন
ভোমার মন্ত্র অগ্নিবচন,
ভাই আমাদের দিয়ো।

- 5. Translate any one of the following passages into Bengali:-
- (a) Who in all the land was like Roland, Earl of Warwick, that peerless champion and powerful lord, rich and generous honoured and feared from one end of the kingdom to another? Many a strong castle and famous city were his; many a brave knight followed his banner; gold and silver had he in plenty; but of all his treasures none was dearer to him than his only daughter, the fair Felice, as wise as she was beautiful, and as beautiful as she was proud. The minstrels were never done singing her praises.
- (b) Babar is said by Elphinstone to have been "the most remarkable prince that ever reigned in Asia." To a simple heart he added great courage, and a perseverance amounting to genius. His life is a strange one; but the manner of his death, as historically related, is stranger still. We are told that when Humayun lay ill, and seemed likely to die, Babar

resolved to sacrifice himself in order to save his son. So he walked three-times round his bed praying all the while earnestly; and at last he exclaimed. "I have taken it away." The force of will, thus exercised, in the father, may have led to a healing faith in the son. This much is undoubtedly-true, that from that time Humayun began to recover and Babar to decline.

SIXTH PAPER

Examiner-Mr. BASANTAKUMAR CHATTERJEE, M.A.

The questions are of equal value.

1. Frame ten sentences to illustrate the use of ten foreign words in use in Bengali, including at least one word from each of the following languages: (1) English, (2) Persian, (3) Arabic, (4) Portuguese, and (5). Sanskrit.

Or.

Fill up the blanks in the following extract with suitable words:-

লোকের——আটপোরে ও পোষাকা কাপড় থাকে,—জাতিরই সেইরূপ আটপোরে ও পোষাকা ভাষা আছে। ——ভাষার নাম চলিত ভাষা, আর—ভাষার নাম সাধু ভাষা : ——কাপড় পরিরা কেং অষ্ট——থাকে না, সাধু ভাষার ও —— প্রহর—কহে না। মনোগত — প্রকাশ করিতে চলিত ভাষারই——দেখিতে ——যার। ——চলিত ভাষাই——ভাষার ——। বচনার নিরবিছির আভিধানিক——প্রয়োগ——এক——অসম্ভব। সংস্কৃতমূলক——সঙ্গে সঙ্গে চলিত ভাষার——প্রয়োগ না করিলে চলে না।

2. Re-write the following extracts, correcting errors, if any, of grammar, idiom, and spelling:—

ষশ্বণিও মহারাক্সা তাঁহার অধীনস্থ কর্মচারী সমূহকে সাবধানপূর্বক আবশুকীয় কর্ম সম্পন্নের আদেশ জারি করিয়াছিলেন, তথাপিও তিনি মিধা। সাক্ষী দেওবাইবার জন্মে কোনও নির্দ্দোষী লোককে নিগ্রহ করিতে বলেন নাই। তিনি জ্ঞানমান বেজি ছিলেন। সর্বাত্রে তাঁহাব খুশনাম শ্রুত হয়।

অত্ত পত্র প্রাপ্ত মাত্র কুশল পত্র দিও যত্র ভত্ত থাক বাপার ভত্তবাত্রা নিও।

3. Give short accounts of any four of the following:—
(a) Vidyāpati, (b) Caṇdīdās, (c) Caitanya-dev, (d) Bhāratcandra,
(e) Bankimcandra, (f) Mukundarām Cakravartī, (g) Dwijendra Lal Roy, and (h) Iswar Gupta.

Or,
Write an appreciation in Bengali of your favourite Bengali author.

4. Translate into English :—
প্রাকৃত্র। গোৰৱার মা ! ভোমার কর্মী ছেলে গা ?
পোৰৱার মা । আমি ছিলেম আর কোণার ? বাড়ীতে ছিলেম ।

প্রকুল। তৃমি কি কেতের মেয়ে ?
গোৰরার মা। যেতে আস্তে খুব পার্ব। যেখানে বল্বে সেখানেই বাব।

প্রফুল। বলি, তুমি কি লোক ?

গোবরার মা। আর ভোমার লোকে কাজ কি মা ? আমি একাই ভোমার সৰ কাজ করে' দেব। কেবল ছ' একটা কাজ পার্ব না।

প্রকুল। পার্বে না कि ?

গোৰবার মা। পার্ব না কি ? এই জল তুল্তে পার্ব না, আমার কাঁকালে জোর নাই। জার কাপড় গোণড় কাচা, তা না হয় মা তুমিই ক'রো। বাসন-টাসনগুলো মাজা, তাও না হয় তুমি আপনিই কর্লে। আর ঘর ঝেটোনো, ঘর নিকোনো, এটাও আমি পারব না।

প্রফুল। ভবে পার্বে कि ?

গোৰবার মা। আর বা বদ। সল্তে পাকাব, জল গড়িরে দেব, আমার এঁটো পাত ফেল্ব, আর হাট-বাজার কর্ব। তা মামি বড়ো মংমুষ, হাবাকালা, আমি ত হিদাব দিতে পার্ব না। তবে যা দেবে সব খরচ করে' আস্ব। তুমি বল্তে পার্বে না যে আমার এই খরচটা হ'ল না।

প্রফল। মা. ভোমার মত গুণের লোক পাওয়া ভার।

5. Determine the place of Bhāratcandra or Bankimcandra in the history of Bengali literature.

INDIAN VERNACULARS—ASSAMESE (SUBSIDIARY)

FIFTH PAPER

Examiner-MR. M. M. Bose, M.A.

The figures in the margin indicate full marks.

Answers may be given either in Assamese or in English.

- 1. What idea have you formed about the condition of Assam as 15 depicted in Manomati?
 - 2. Give the substance of the poem নৰ জীৱনৰ ছু'টি ৰাট, or of নই- 15 বাডালী ভাৰৰ ভেটি উছন।
 - 8. Estimate the poetic merit of खाववानियो।
 - 4. Estimate Rukma as a hero, and Krishna as a lover.

5. Explain any two from each of the following groups:-

GROUP A

(a) পছ্মীৰ খভাৰ হেনো সক্তেও গহীন আৰু গোষেঠো বিধৰ আছিল। কিন্তু তেওঁ আচল গোষোঠা আৰু নিৰ্ব্যায়াল খভাবৰ নাছিল।
48—81

- (b) বই অহা ত্ৰহ্মপুত্ৰৰ সোডটো মোৰ নিচলা ফকিৰে ভেটা দি ৰাথিৰ খুজিলেনো পাৰিষ কেনেকৈ ?
- (c) ফুলবিলাকে হেনো এনেকৈ ফুলিয়েই ভোমাক মোক ভাল লগাৰলৈ, ভোমাক হেপাহ লগাৰলৈ হুখ পায়।

GROUP B

- (a) সকলোতে আছে তেওঁ;
 কিন্তু নেদেখে যে কেওঁ,
 ওৰনীৰে মুখ ঢাকি থাকে ওচৰত;
 সেয়ে খেপিয়ালে হায়!
 পাবলৈকো নাই নাই
 একণকো চিন-ছাব, ধৰা-ওপৰত।
- (b) আজি হার ! ফুবিছ যে ধণছালী মাবি
 ফুদিনীয়া পৃথিবীত মূবে-ভবি-কাঢ়ি;
 কাইলৈকে দেখা পাম, আমাবেহে দৰে,
 ধূলি-মাকটিবে মিল হ'বি শেহস্তবে।
- (c) আহা ! কেনে স্থকলমে ডেকালবাবোৰ স্বিছেহি ওলোটাই চ্ৰীয়াৰ ঠোৰ। নাই বাধা বিদিনি ও নাই গুৰুজন; দেখি নিৰজন ঠাই উত্ৰাৱল মন।

GROUP C

- (a) কেঁচো জনী ওভোতাই পিন্ধিল কাপৰ।
 কাঞ্লীক ভল কৰি আঞ্চল উপৰ॥
 ভৰিত মুকুত আঁবে মুপুৰক মাথে।
 কুঞ্ক চাহিৰ লাগি চলে আথে বেথে॥
- (b) সৰ্কালে ভোষাৰ পালন দেৱ ছাক।
 এতেক বৃলিবে ক্লফ নালাগে আমাক॥
 স্থাৰণে পাপ হৰে দেখিলে মুক্তি।
 হেনাংৰি স্ততি কৰা কমন যুগতি॥
- (c) বাক নাটলেক যুদ্ধে মহাবাঞা জাক।
 ধান-স্থল লৈয়া তুমি খেলি বাহাঁ ভাক॥
 বন্ধুবান্ধ্ৰৰ স্থানিলাঁ হিডবৃদ্ধি।
 স্বভাৱৰ ক্ষীয়াক কি কৰে ঔষধি॥

18

19

10

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. 15

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6. Give the substance of the following

যি চাকৰী কৰে সি আঙে বান্ধা পৰৰ চাকৰী কৰি ব্ৰাহ্মণ বা ব্ৰাহ্ম বুলি নিজক পৰিচয় দিলে ব্ৰাহ্মণ বা ব্ৰাহ্ম শব্দৰ অৰ্থৰ ব্যক্তিক্ৰম কৰা হয়। যি দাস সি ব্ৰাহ্মণ হব নোৱাৱে। প্ৰকৃতিৰ বিকৃতি মাথোন। ব্ৰাহ্মণ কেৱল প্ৰমজ্ঞান, প্ৰম গুৰুৰ অধীন, আন কাৰো অধীন হ্ৰ নোৱাৰে।

SIXTH PAPER

Examiner-Mr. A. N. Borah, M.A.

The figures in the margin indicate full marks.

Answers may be given in Assamese or in English.

1. "No nation or tribe was ever so completely isolated as not to admit a certain number of foreign words... it matters not how many words may be derived in common from another language, it does not prove the identity of any two dialects. It is the grammar that we must look to decide their identity." (Max Müller.)

Discuss the question of identity of Assamese and Bengalee language in the light of the above statement.

2. State in what sense the singular suffixes টো, ডাল, জনী, খন, and চটা are used and give an example of each of them.

O7.

Name the suffixes commonly used in Assamese to indicate plural number and give an example of each.

8. State the difference, according to the author of সাহিত্যবিচাৰ, between সিহলি পঞ্চ and শুদ্ধ পঞ্চ and their general characteristics.

Or,

Write a short essay on general characteristics of অসাধাৰণ উপকৰা।
4. Criticise the definition of literature given by the author of সাহিত্যবিচাৰ, drawing out the distinction between language and literature.

5. Distinguish with approximate dates what you consider to be the principal periods or stages in the history of the Assamese literature, stating the peculiarities of each period.

Or

Compare and contrast the Vaisnavism preached in Bengal with that in Assam, and discuss the reasons why the latter became successful.

6. Write what you know of বেষ সৰ্বতী and his writings.

Or.

Write a critical note on वांधवकमानी' वांबाहर.

7. Write what you know of different kinds of ballads in Assamese language and discuss their importance in the history of Assamese literature.

O۲,

Write what you know about ## and his sayings.

INDIAN VERNACULARS—HINDI (SUBSIDIARY)

FIFTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-MR. AMBIKAPRASAD BAJPAI

N.B.—Three questions (2, 4, and another) are to be answered.

- 1. What do you know of Mirabai and what is her position in Hindr literature?
 - 2. Explain fully one of the following passages :-
- (a) आह ! किसने इस कठिन समय में धर्म का यह उपदेश दिया ? सच है, मैं अब इस देह की कौन हूं जो मर सकूं ? हाय देव ! तुझ से यह भी न देखा गया कि मैं मरकर भी सुख पाऊं। (कुछ धीरज धरकर) तो चलूं छातीपर वज्र धरके छोकरीति करूं। (रोती और छकड़ी चुनकर चिता बनाती हुई) हाय ! जिन हाथों से ठोंक ठोंक कर सुछाती थी, उन्ही हाथों से आज चितापर कैसे रक्खूंगी ? जिसके मुंह में छाछा पड़ने के दर से कभी मैंने गरम दूध भी नहीं पिछाया उसे (बहुत ही रोती है)।
- (b) हिरच्य और मित्रके छाभसे मित्र का छाभ उत्तम है। इसिल्ये मित्र मिल्रने का यह करना और अपनी सचावट बचाये रहना चाहिये। स्वामी, अमात्य, जन, दुर्ग, कोश, दण्ड, और मित्र ये सात राज्य के मूलकारण हैं, इसिल्ये राज्य सप्ताङ्ग कहलाता है। एसा राज्य पाकर राजा दुर्शे को दण्ड दे, क्योंकि पूर्वकाल में ब्रह्माने दण्डरूप से धर्मको बनाया। जो छोभी और चञ्चछ बुद्धि होता है, वह न्याय से दण्ड नहीं चला सकता। किन्तु जो सच्चा, पवित्र और अच्छे सहायकों से युक्त होता है, वह न्याय से चळाता है। शास्त्रकी विधि से जो दण्ड का प्रयोग करे तो देवता, असुर और मनुष्य सहित सब जगत् को आनन्द होता है, अन्यथा करे तो सब कोप करते हैं।
- 8. Who is the most celebrated Hindi writer of modern times, and why?
- 4. Translate one of the following into English, adding explanatory notes where necessary:—
- (a) यह पहाड़ गयासे कुछ तूर पड़ता है औं मैं सैछानी आदमी इस छिये दुसरे दिन पहुँचा—राह में कई एक गांव पड़े; वहां की विचित्त भाषा औ विचित्त पहनाव देख सेरे चित्त में और ही भाव होता था। एक निरे गयानिवासी और दूसरे एक दृक्के भैथिछ भी मेरे-साथ पड़ गये थे। जब वे एक दूसरे से

बातें करते थे, तो विचित्त ही "कहल्ण्यू, सुनल्ण्यू" औ "कहें छी, सुनै छी" की कि सही सुन पड़ती थी। और तो या ही, पर इनकी बात बात में "थू" और उनकी बात बात में "छी" था। बराबर नामक पहाड़ दूरही से देख पड़ने लगा। जान पड़ता था कि वह भी सिर उठाकर हमलोगों को देख रहा है। इसके सब से ऊ 'चे शिखर पर एक पेड़ भी बड़ा मारी देख पड़ता था, जैसे सिरपर पर तुर्री हो। इसी के पास एक पहाड़ था। इसका नाम लोगोंने "कौआडोल" बताया। यह बात भी लोगों से जानी गयी कि इसपर एक बड़ी भारी शिला है, जो केवल कीए के बैठने से हिल जाती है।

- (b) खिलते फूलों की सुगन्ध और सुन्दरता चढ़ी बढ़ी चहुं ओर फेंडी फबी मानों होड़सी बदकर मैदान में उतर पड़ी है। सरसों के फूलने से जिस ओर दृष्टि फैलाकर देखो खेत के खेत बसन्ती ही बसन्ती बने ऋतुराज वसन्त महाराज की महिमा मानों प्रत्यक्ष दरसा रहे हैं। मदमाती कोइलिया की सुरीली कुहुक पंचम स्वरसे मी कुछ जंची तानें सुना सुना ऋतुराज को जदाही रिझाती उनके ही गुन गा रही है। साथ ही रंग रंग के पखेरू नये विकसे फल पत्तों और फलों का स्वाद चख मनमगन हो तमाल, रसाल और अशोक की सघन दाखियों पर नाच नाच कर चहकते हुए समय का राग अलाप कर समा बांध रहे हैं। क्या ही सुहावना समय है। इन गुणों के कारण वसन्त सब ऋतुओं में अह और ऋतुराज माना गया है।
- 5. Who is the most popular Hindi poet and what work of his is read by the learned and the unlearned alike?
 - 6. (a) What are the chief rules for distinguishing the genders of noune?
 - (b) Where is a used as the case of agent? Give exceptions, if any.
 - (c) Explain five of the following expressions:-

वाछभोग पाना, जुहार करना, धूल में मिलाना, मूछ नीची करना, पत रहना, चमक दमक दिखाना, जी चुराना, छक्क दक्क सजावट, बीट करना, बिक्त बाहर, काम न देना, इति श्री होना।

SECOND HALF

Examiner-Mr. Ambikaprasad Bajpai

N.B.—The first two questions are compulsory. Of the others, only one is to be answered.

- 1. Translate into English any two of the following:-
 - (a) हुमा पर हुमा जीते सिरजा शिवाजी गाजी, शुंद रिपुमुण्डनके उग्र हार फरके। भूजन भनत बाजे जीतके नगारे न्यारे सारे फरनाटी भूप सिंद्रङ की सरके॥

- नारे छगे शोणितके बहन पनारे छगे भारे छगे धमके सतारे गढ़ धरके। बीजापुर बीरनके गोछकुं डा धीरनके दिछी उर मीरन के दाहिमसे दरके॥
- (b) सिस बिन सूनी रैन, ज्ञान बिन हिरदे सूनो ।

 कुछ सूनो बिन पुत्र, पक्ष बिन तरुवर सूनो ॥

 गज सूनो बिन दन्त, छित बिन सायर सूनो ।

 विप्र सून बिन बेद, और बिन पुहुप बिहूनो ॥

 हरिनाम भजन बिन सन्त अरु, घटा सून बिन दामिनी ।

 बैताल कह बिकम सुनो, पति बिन सूनी कामिनी ॥
- (c) हंस गमनि तुम नहिं बन योगू।
 सुनि अपयश देहहिं मोहिं छोगू॥
 मानस सिट सुधा प्रांतपाळी।
 जिये कि छवन पयोधि मराछी॥
 नव रसाछ बन विहरण शीछा।
 सोह कि कोकिळ विपिन करीछा॥
 रहहु भवन अस हृदय विचारी।
 चन्द्रवदनि दुख-कानन भारी॥
- 2. Explain fully any two of the following:-
 - (a) कारणते कारज कठिन होय दोष नहिं मीर । कुछिश अस्थिते उपछते, छोह कराछ कठोर ॥
 - (b) गुरु विवेकसागर जग जाना । जिनहिं विश्व करबदर समाना ॥ मो कहं तिल्क साज सजि सोज । भा विधि विमुख विमुख सब कोज ॥
 - (c) कहुं सुन्दरी नहात नीर कर-जुगल उछारत । जुग अम्बुज मिछि मुक्त गुच्छ मनु सुच्छ निकारत ॥ घोवत सून्दरि बदन करन अति ही छवि पावत । बारिधि नाते ससि कछड मनु कमछ मिटावत ॥
- 3. (a) Who were the speakers in Question 2 (a) and (b), and on what occasions were they spoken? Explain the allusions in Question 2 (a) and (c)-
- (b) Why were Sivi, Dadhichi, and Bali praised by Kaikeyi in extracting boons from King Dasaratha?

- 4. What was the interest of the Devas or gods in sending Rama to the forest? Describe in your own words the doings of Bharata after Rama left Ayodbya.
 - 5. (a) Give the meanings of six of the following words:—

सिहाहीं, पतियाहू, बियानी, सुपासू, तात, बागरु, सयाने, प्यान, हुति, पुनीत, बहोरी, पुनि, ससुरारी, बसाइ।

- (b) Give the Sanskrit forms of six of the following words:--
- नाह, नेह, मसान, गय, मोर, आगी, सिय, गुसाई', बखान, ठांव, पाहन, सहिम, चखपूतरि।
 - (c) Explain six of the following expressions:-
- (1) मानुष करनि मूरि। (2) काठ किठनाई। (3) पूजि पारथी। (4) पन्थ दिखाई। (5) पायंन छागा। (6) विश्वव दिर जिमि तुम्हरे हाथा। (7) जानत तुमिहं तुमिह होइ जाई। (-) अमिय रसबोरी। (9) छोचन छाहू। (10) घात भिक्क फावी। (11) घरफोरि नाऊं। (12) रिपु होहं पिरीते।

SIXTH PAPER

The questions are of equal value.

Examiner-Mr. NALINIMOHAN SANYAL, M.A.

FIRST HALF

Answer the FIRST and THIRD questions, and ONE of the remaining three.

- 1. Translate one of the following passages into English :-
- (a) बचों के िएये जो दूध का अभाव है, वह केवछ गौओं को कमी के कारण। हर साछ बहुत सी गौएँ कटती जा रही है, और जो बचती भी है उनका पाछन-पोषण अच्छी तरह से नहीं होता, तथा जो छोग गौओं को पाछले हैं, वे उन्हें भर-पेट मोजन नहीं देते। साथ ही, एक बात और है—गौओं के चरने के छिये मैदान नहीं हैं, जहां उन्हें छहछही घास मिछ सके। वे वेचारी हचर उपर कृदा इत्यादि चवाती किरती हैं। भछा, अपविस खाद्य से उत्पद्ध दूध गुणकारी कैसे हो सकता है ?
- (b) कछकत्ता-विश्वविद्यालय के अन्तर्गत पहले वंगाल आसाम तथा विहार के कालेज थे। पर पटना तथा डाका के विश्वविद्यालयों की स्वापना के बाद से जब कछकते का काम कुछ सुगम हो गया है। परन्तु तब भी यहां के विद्यार्थियों की संख्या क्षत्रभग २००० है। वंग-प्रदेश भरके कालेजों के

अतिरिक्त कळकत्ते में ही कितने कालेज हैं। भूतपूर्व वाईस-चान्सेछर सर आशुतोष मुलोपाध्याय बड़े ही विद्याप्रमी थे, और बंगाळी होते हुए भी उन्होंने ही पहले हिन्दी को उच्च परीक्षाओं में स्थान दिया था।

- 2. Give the substance of one of the following:-
 - (ग) छोडे छोटे पत्ते मिछकर छाया सघन बनाते हैं। स्त स्त मिछकर मदमाते हाथी को बँधवाते हैं॥ एक एक करके ईटों ने भी बाँध दिया पुछ नदियों में। हम तुम बिना एकता के उठ न सकते कभी वर्षों में॥
 - (ं) हे मातृभूमि ! तेरी सेवा सदा करूंगा । ब्रत छे चुका हूं पक्का, इस्से न कभी टरूंगा ॥ जननी ! तेरे दुखों को नहीं देख अब सकूंगा । तुमको सखी करूंगा, रोके नहीं रुकृंगा ॥
- 3. Translate one of the following passages into Hindi :-
- (a) Do you know what it is to be ill, and to lie tossing in your bed, hot and thirsty, with a pain that is hard to bear? Then your mother or some kind friend comes to your bedside and gives you a cool drink, gently strokes your hot head, and tells you that you will soon be well. This comforts you, and you are content to lie still, and bear your pain bravely, for you know that someone is caring for you, and trying to make you better.
- (b) A king in the East was once in great need of a servant whom he could trust. After thinking for a long time, he made a plan by which he thought he could get one. He let it be known in the city that he wanted someone to do a day's work for him. Two men soon came, and said they were ready to do the work. So the king told them what wages they would have for working the whole day, and then gave each of them a basket. Each man was to take his basket to a well in the palace garden, and fill it with water.
 - 4. Re-write the following correctly:-
- (1) हम कल बनारस से आया है। (2) राम का घर में आजकल कोई आदमी नहीं है। (3) वह आदमियों ने राम को कल बहुत मारा था। (4) हमने राम को पूछा कि तुम कैसा है। (5) मास्टर साहब आज मुझे यहाँ। आने को कहे थे। (6) आज बहुत गर्मी है, चछो हम बाग का ठंढा हवा खा आजें। (7) राम की माता दश रुपेआ भेजी है। (8) आज सबेरे में चाइ गरम जलेबी खाये थे।
- 5. Re-write the following by putting in single words in each of the blanks:—
 - . मेदिनीपुर ज़िले महीमपुर नाम एक गाँव निकट एक डोटी सी नदी बहती — । — गाँव — एक छड़का रहता — ।

बसका नाम अजित — । अजित का न तो बाप था, न कोई भाई, — कोई बहन । सिर्फ मा — महीमपुर — अधिकांश घर तांतियों के — । अजित — बाप भी, जब जीता —, तांती — काम करता — ।

SECOND HALF

Examiner-Mr. Nalinimohan Sanyal, M.A.

Attempt only THREE questions.

- 1 What were the earliest literary compositions in Hindi? What were the subjects on which these were written? Who is regarded as the best writer of these? Name and give a brief description of the principal work he wrote.
- 2. Give an account of the religious revival in Hindostan in the fifteenth and sixteenth centuries, and indicate the several channels in which it flowed with the literature which each channel gave rise to.
- 3. Who, in your opinion, are the two greatest Hindi poets? Discuss their claims to the high places you assign to them. What were the names and subject-matters of their works?
- 4. What do you know of Keshav Das, Bihari Lal, Dev Kavi, Padmakar, and Harischandra?
 - 5. Give an account of the rise and progress of Hindi prose literature.

INDIAN VERNACULARS—ORIYA (SUBSIDIARY)

FIFTH PAPER
Examiner—PANDIT BINAYAK MISRA

The questions are of equal value.

- 1. Explain any three of the following extracts with reference to the context:-
 - (a) ଅସ ମା କରୁଣାମସ୍ । ବଣଣୋ କ୍ରଣୀ ବର୍ଜ ଏ ପାଣେ ଅଜ୍ୟବଣମ୍ବ ବାଣୀ ଫେଡ଼ି ଅଜରର ଦ୍ୱାର ଅଦମ ଅସ୍ୟ-ସଂସାର, ତୋ ଅଦମ ଲୀଳାଭୂନି ଦେଖାଅ ମା ଅଣି, ଦେଖ ସେହୁ ପୁଣ୍ୟାଲେଖ୍ୟ ଏ ପ୍ରାଣ ବଞାଣି ।
 - (୬) ଏ କ୍ଷ୍ୟୁ ପ୍ରାଣର ସେମ-ପ୍ରଭଦାନ ପାଦ୍ପଦ୍ୱେ ପ୍ରାଣ-ବଲ ଅର୍ପର୍ଯ୍ୟନ୍ତେ ସେନ ମହାପ୍ରଭୁ ସେନ ଏ ଦୁଃଖିର ଅଲ ।
- (c) ଅନେକ ସ୍ମଷ୍ଟର ଏହର ମଧ୍ୟ ଦେଖାଯାଏ ଯେ ଅମ୍ବୋଳେ ଲେଖ୍ନୁ ସପ୍ତମ ସ୍କର କଥା, ବାସ କରୁଁ ପୃଥ୍ବର ଧୂଲଗଣି ଉଷରେ । ଯେଉଁ ଦେଶରେ ବାଷ ସେହ ଦେଶର କଥା ଲେଖିଲେ, ଜାହା ସ୍ୱାଭ୍ବକ ହୃଏ । ଯେଉଁ ବ୍ୟକ୍ତି ପ୍ରକୃତ୍ଯ ସେହ ଏକ। ଉଷଯୋଗୀ ବ୍ୟସ୍ ସ୍ୱାଭ୍ବକ ଭ୍ବରେ ଲେଖି ହାରେ ।
- (d) ଗୋହିଏ ଅକାନ୍ଧା ଏକ ସ୍ଥାନରୁ ବାହାର ଦାବାରି ସବୃଶ ଦେଶଯାକ ବ୍ୟପିଯାଏ ଏକ ଗ୍ରାମଧ୍ୟରେ ଜୀବର, ମୂର୍ତ୍ତି ପର୍ଞହ କର ସାହ୍ରଦ୍ୟରୁଷରେ ପ୍ରକାଶିତ ହୁଏ । ସାମସ୍ଟିକ ଉଦ୍ଦାପନାରୁ ଏହାର ଜଲ ସତ୍ୟ, ମାଶ ଏହା ସୁଗେ ସୁଗେ ମାନକ-ପ୍ରାଣକୁ ସଂଜୀବତ ଓ ଉଦ୍ଦିପିତ୍ର କରେ ।
- 2. Give in Oriya the theme of ର୍ଷିପ୍ରାଣେ ଦେବାବରଣ occurring in the କୁସୁମାଞ୍ଜର.

Give a critical note in Oriya on any of the essays in the:

- 3. Translate any five of the following sentences into Oriya:-
 - (a) I shall tell you after I have seen the teacher
 - (b) You saw me yesterday when I was going to the bazar.
 - (c) I heard him telling a story.
 - (d) He will come to me as soon as he reaches Calcutta.
- .(e) The Headmaster had great trouble to get out the truth from the boy.
 - (f) There will be no class to-day owing to the absence of the teacher.
 - (g) Ram will remain here no longer.
 - 4. Translate any five of the following sentences into English:-
 - (a) ଯେବେ ଭୁମେ ଅକ ନକର ତେବେ ହୟ ସଡ଼ିବ କାହିଁ ।
 - (୬) ଗ୍ରମ ସୁଲ୍କୁ ଯାଭ ଯାଭ ବାଖରେ ବଣ୍ଡଗଲ ।
 - *(o*) ସେ ହାଞ୍ଚଲୁ ଯାଉଥିବାର ମୂଁ ଦେଖିଥିଲ ।
 - (d) ଅନ କେଉଁ ଦଗରୁ ମେସ ବାହାର ବରିବ, ଜଣା ନାହିଁ ।
 - (e) ମୁଁ ଏଣିକ କାହାରକ ଅଉ ବୟାସ କରବ ନାହିଁ ।
 - (ƒ) ଦନଲ୍କଦନ ପିଲ୍ବିଶ୍ୱ ଶ୍ୱ ଯାଉଛୁ ।
 - (g) ବାଶରେ ନ ଯାଇ ଅଣବାଶରେ ଗଲେ କ୍ୟାଲ୍କ ବ
 - 5. Frame sentences to illustrate two different meanings of each of the following words:—

ତେବେ, ଯେଣ୍ଡ, କଣା, and ବର ।

SIXTH PAPER

Examiner-Mr. Priyaranjan Sen, M.A.

The questions are of equal value.

- 1. Give an idea of the contribution made to Oriya literature by Sarals Dās or Balarām Dās.
- 2. Write brief notes on any three of the following:—
 Mathurā-Mangal, Geetābhidhān, Bhimā Bhoi, and Rasa-Kalloja. 8. Explain how Fakirmohan Senāpati is one of the originators of modern Oriya literature.
 - 4. Decline 49 or was in the plural forms.
 - Correct or justify the following:-ବିଜ୍ଞାପ୍ତ, ଦୂଶକ, ସାରବାନତା, ତଦାଉପର୍କୁ, ବଧ୍ୟ .
 - What are the opposite words for পুরুহার, অনুর্ত, ଅବହାର, ସମସ୍କ, ପ୍ରସମ୍କ, ସୁକର, and what is the difference between ଅଧାନାସ୍କ and ଉପନାସ୍ତ ?

INDIAN VERNACULARS—MAITHILI (SUBSIDIARY)

FIRTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-PANDIT BABUA MISRA.

- 1. Explain clearly any two of the following:-
 - (a) प्रभु कर परस धनुष टुटि गेल। शब्द प्रचण्ड भुवन भरि भेछ॥ फणिपति फण फट फट कय काट । कच्छप कछमच मानस आंट ॥ कलमलाय उटलाइ वराह । कसमस कयछ दशन निर्वाह ॥ विमाजचय कयळिन चितकार। सहि नहि सक महि दुर्भर भार॥ हरामरा अवनी अञ्चल छारा। सात सम्रह रहित मर्थाद ॥

विनकर रथहय त्यागल बाट । जय जय कर मिथिलेश्वर भाट ॥

- (b) भूखल छलहुं संग निह खर्चा तोहि तोहि फल खयलहुं।
 रक्षक छण्ठ प्राण लेवा पर बहुत नेहोरा कयलहुं॥
 कान कपार एक निह बूझल पातें पात नुकेलहुं।
 अपन स्वरूप धयल हम सवकां कालक धाम पठौलहुं॥
 पहिने मारि बहुत हम सहर हुं पाछां अनुचित कयलहुं।
 दशमसक लक्षापित राजा की अपने खिसिअयलहुं॥
 एक गोट वानर पर एते सेना व्यर्थ पठयलहुं।
 धरमंशास्त्रवेता अपने सन न्याय करू अगुतयलहुं॥
- (c) कुळक्रुष्ट्रप्रद पुत्त कतहु जनु देथि विधाता । वरु जन सहश्च विषाद रहथु बन्ध्या भय माता ॥ धिक अङ्गद युवराज तपस्वी दूत कहावय । जे मारक छ्ल बालि तनिक जय सतत मनावय ॥
- 2. Explain fully, in English, any one of the following:-
 - (a) माघव करिअ सुमुखि समधाने ।

 तुअ अभिसार कयछि जत सुन्दरि

 कामिनि करए के आने ॥

 विस्स पयोधर धरिन वारि भर

 रहनि महाभय भीमा ।

 तहओ चलि धनि तुअ गुन मन गुनि

 तसु साहस निह सोमा ॥

 देखि भवन भिति लिखल भुजगपति

 जसु मन परम तरासे ।

 से सुवर्दान कर झपइत किन मिन

 विदुंसि आइलि तुअ पासे ॥

 निअ पहु परिहरि संतरि विषम निर

 अंगिरि महाकुळ गारी ।

 तुअ अनुराग मधुर मद मातिल

किव विद्यापित गावे।

काम प्रेम दुहु एकमत भय रहु
कर्मने की ने करावे॥

(ं) माधव कि कहब तोहरो गेयाने
सुपहु कहिल जब रोष कयल तब
कर मूनल दुहु काने॥

आयल गमनक बेरि न नीन टक्
ते' किछु पुछिओ ने भेला।

एहिन करमहिनि हम सिन के धिन
करसँ परसमिन गेला॥

जी हम जिनतहुँ एहन निद्धर पहु
कुच कञ्चन गिरि साधी।

ई रस रसिक बिनोदक विन्दक

दृढ़ कय रिलतहुँ बाँधी॥ ई सुमिरिय जव जैं। न मरिय तब बुझि पड़ हृदय पषाने। हिमगिरि कूमिर चरन हृदय धरि कवि विद्यापित भाने॥

कौसल करतल बाहुलता लय

3. Sketch the character of युधिष्ठिर। Criticise his epithet "ধৰ্মবাৰ"।

SECOND HALF

Examiner-Pandit Babua Misra.

- 4. Give the substance of any two of the following:
 - (a) हिर हिर विलिस विलासिनि रे लोचन जलघारा।
 तिमिर चिकुर घन पसरल रे जिन विजुलि अकारा॥
 नील्यसन तन वेधक रे उर मोतिक हारा।
 सजल जलद कत झांपव रे, डगमग कर तारा॥
 इठि इठि खसय कत योगिनि रे, विक्रिश युग जाती।
 पवन पटल पुन आजीत रे, जिन भादव राती॥

- यामिनि समके वरनिन रे, विरहिन थिक वाना । समसँ वड़ थिक अनुमव रे, घीरज घह रामा ॥
- (b) तुअ विनु आज भवन भेल रे घन विपिन समान ।
 जनु ऋधि सिधिक गरुअ गेल रे मन होइछ भान ॥
 परमेश्वरि महिआ तुअ रे शिव विधि नहि जान ।
 मोर अपराध छमव सब रे नहिं याचव आन ॥
 जगत जननिकां जग कह रे जन जानकि नाम ।
 नेहर नेह नियत नित रे रह मिथिलाधाम ॥
 शुभमयि शुभ शुभ सभ दिन रे थिर पित अनुराग ।
 तुअ सेवि प्रल मनोरथ रे हम सुखित सभाग॥
- (c) धान जरिजाय तैं। वनाय खरिहान की हो पान सिंदजाय जैं। तैं। जरदे वचीने की। की हो परयक्ष जैं न वाला निशि अक्ष लागें पक्ष लागें देहमें तैं। गरदे वचोने की॥ विरचि आराम की जैं। आम-तरु काटि फेंकी खेत जैं। निलाम हो तैं। वरदे वचीने की। 'सीताराम' गुप्तरूप घरमें कुकर्म हो, अरु लुप्त सब धर्म हो तैं। परदे वचीने की॥
- 5. Translate, into English, any one of the following:-
- (a) दिनेश बाबू भोज खायकँ ढेकरैत चल अबैत छलाह। रीद छलेक तेज, खयने छलाह नांक सांक कं कं, अबैत छलाह रीदमुं हा कि सुनलैन्ह बांसक बीट दिश टेंगारीक आवाज। लगलैन्ह सक्ष द। बांस कटनिहारकें गरिअबैत बीट दिश दौड़लाह। "चोर सहे इजोत" १ ओहो छेलक लंक। देल तीं ई भारी रेवाड़ी, मुदा फल भेलैन्ह किछु नहिं, इयेह ले, बेह ले ओ पार भय गेछ।
- (b) ई सर्वसम्मत विषय अछि जे समयानुसार कार्य्य करवाक चाही। समक्राहरों के वेशेक कार्य कर्यने कोनो देश, जाति वा समाजके सफलता सम्मास होएव असम्भव। कोनो देश, जाति वा सामाजक एक व्यक्तिक केहनो परिश्रमर्थ देश वा समाजक सुधार वा उद्धार निर्दे भयसकेछ, कारण "एसकर बृहस्पतियों कृसि"। किन्तु वेह कार्य ज अनेक व्यक्तिक सहयोगितासँ सम्पाइन हो तें सफलताक सोबही आना आशा।

6. Translate the following into Maithili:-

It is a common saying that "manners make the man" and there is a second that "mind makes the man"; but truer than either is the third that "home makes the man." For home-training includes not only manners and mind but character. It is mainly in the home that the heart is opened, the habits are formed, intellect is awakened, and character moulded for good or for evil.

SIXTH PAPER

Examiner-Pandit Brajamohan Thakur, M.A., B.L.

The figures in the margin indicate full marks.

FIRST HALF

(Only THREE questions are to be attempted.)

- 1. "The plural number of nouns in Maithili is simply formed 163 by the addition of a noun signifying multitude." Discuss fully and critically, and show by illustrations.
- 2. (a) Frame sentences to use (i) অঘুন, (ii) অহুন, (iii) হুন, and 16% iv) বু, with verbs in the Imperative forms, and show peculiarities in their application.

(b) Decline "a" in Non-Honorific Singular form and in

16%

Honorific Plural form.

3. How Comparative and Superlative degrees (Adective) are formed in Maithili? Frame sentences to illustrate them. Has Sanskrit language in any way influenced the Maithili in this connection? Give feminine of "ART" and the rule that generally guides such cases.

Or,

Give the opposite gender of :-

'उजर'; करिक्की : पीरा ; गोर ; गोली, बुधिआर ; सुघड़, वौक वकलेल्ड । बेटा ; हरिअर, लाछ ॥

- 4. Frame sentences to show the difference in the application of 16% any six of the following:—
 - (?) देखैत छलाह ।
 - (३) देखैत छ्छ ।
 - (3) देखेत छल्युन्हि (or देखेत छल्यीन्हि) ।
 - (4) देखैत इस्टब्स ।
 - (5) देखेत छलहींक।
 - (6) देखेत छले ।
 - (7) देखेत छिओ।
 - (8) देखेत छ्ली।
 - (9) देखैत छछिए।
- 5. Give rules for forming Active (বৰকাৰ) and Causal (ইংবাঘৰ) 16} verbs from Neuter (বৰকাৰ) verbs.

SECOND HALF

Examiner-Pandit Brajamohan Thakur, M.A., B.L.

· (Only THREE questions are to be attempted.)

- 1. "The four personal forms of the Transitive verbs exhibit to a wonderful degree the luxuriance of the Maithili language. They depend not only on the subject but on the object of the verb." Discuss the above statement of Dr. Grierson by examples. In this connection show the difference on the point with other language which you have taken for the principal subject (Hindi or Bengali, etc. etc.).
- 2. Discuss generally the influence of Brajabhasa and Persian on 168 the vocabulary and on the grammar of Maithili language.

Illustrate by examples.

- 3. Discuss generally the part played by Maithili in the formation of other Indian language or languages.
- 4. Discuss the position of Vidyapati Thakur in Maithili literature and also his influence on the Vaishnava literature of Bengal.
- 5. Name any three important writers in Maithili and give a 169 short literary history of them each.

INDIAN VERNACULARS—GUJARATI (SUBSIDIARY) FIRTH PAPER

Examiner-Pandit Hargovind Das Seth

The figures in the margin indicate full marks.

Answer the FIRST THREE questions and ANY TWO of the remainder.

90

1. Translate into English:-

ઉપનિષદમાં એક આષ્યાયિકા છે કે નચિકેતાના ખાપે યુત્ર માંડ્યા. યુત્રમાં ગાયનાં દાન કરવાં જોઈએ-તેમાં તેણે ઘરડી. દુખળી અને સૂકેલી ગાયાનાં દાન કરવા માંડ્યાં! એ દાન વળે અસં! નચિકેતાએ વિચાર કર્યા કે પિતા દેવને કેતસલાવેછે. તેથી એમના યજ્ઞ અફળ જશે અને પામ લાગશે. તેથી તેણે આપને કહ્યું—"પિતાજી! શાસમાં ગાંચા આપવાની કહીછે—પણ તે શું સામાને ભારરૂપ શાય તેવી ? માટે આવી ગાયા આપાછા તે કરતાં તા ન આપા તે વધારે સારૂં ." આ સાલવી પિતા ગુસ્સે થયા અને છે:કોા— "લાવ ત્યારે, હું તનેજ યમદેવને આયું." એમ કહી એ ક્રૂર પિતા પાતાના પુત્રને યમદેવને આપવા તૈયાર થયા ! છતાં પણ પુત્ર ડગ્યા નહિ. અને યમદેવ પાસે જઇ એમને પ્રસન્ન કરી વરદાન મેળવ્યાં: તેમાં એશે પિતાના અપકાર ભૂલી જઇ પિતાની કુપા માગી, તથા પ્રભુની સેવાનું તથા પ્રભુના સ્વરૂપનું જ્ઞાન માગ્યું.



2. Translate into English or into Bengali:

- (a) હુસેનખાં ઉન્હાળાને અપારે એક રાશ્ના ઝાડ તળે ઠંડકમાં સતા હતા. એટલામાં ઝાડ ઉપરથી પક્ષીએ બે ચાર રાશ્ના એમની પાસે પાડી, મીઆંને એ ખાવાનું મન થયું, પશ્ કેણ્યુ લાંબા હાથ કરીને લે? એટલામાં એક વટેમાર્ગ ઉટ ઉપર બેશીને જતા હતા તેને એઇ હુસેનખાંએ ટાકા કર્યો: "અબે ઉટવાલે! જરા નીચે ઉતરકે મેરે મૂંમે યે ખિન્ની (રાશ્) ડાલ તા સહી, "ઊટવાળાને મીઆંનું આળસ એઇ માંહેથી હસવું આવ્યું, અને જવાબ દીધા: "મીઆં ઊટ ઉપરથી હું તા કાંઇ ઉતરતા નથી." મીઆં બાલ્યા: "અબે! તું તા ખડા એકી માલમ હાતા હૈ!" ઊટવાળાથી મનમાં હસીને બાલ્યા વિના રહેવાયું નહિ કે "એઢી તે હું કે તું ?"
 - (b) પટક માયા પરી, અટક ચરણે હરી, વટકય મા વાત સુણતાંજ સાચી; આશનું ભવન આંકાશ સુધી રચ્યું, મૂઢ એ મૂળથી ભીંત કાચી, ધ્યાનવ અંગ જેખન ગયું, પલિત પિંજર થયું, તાય નથી લ્હેતા શ્રીકૃષ્ણ કહેલું; ચેત રે ચેત, દિન ચાર છે લાભના, લીંખુ લ્હેકાવતાં રાજ લેવું.
- 3. Write in your own words in Gujarati any of the stories 20 you have read about ઉદ્યોગ .
- 4. Explain the following words and use them in your 15 own sentences:—

દેશવટા, અંધાધુંધી, જાગીરદાર, આડાશીપાડાશી, સુચ્સામાન, વધુત્રારા 5. Give an estimate of one of the following poems:-

15

7. Give an estimate of one of the poets you have read, quoting if possible from his poems.

15

SIXTH PAPER

Examiner—Dr. I. J. S. TARAPOREWALLA, M.A., Ph.D.

The questions are of equal value.

Answer the WHOLE of Section A and TNY THREE out of Section B.

A

- 1. Translate into English (or Bengali or Hindi) any two of the following passages:—
- (a) "કાકા સાહેબનું એક વાકય ઘણું ઇયાદ આવે છે 'હિંદ-માતા પારકાં પાણી ભરેછે' આ વાકય તેમણે તો સૂત્ર રૂપે લખ્યું, પણ તેના અર્થ ભારે ઉડા છે હિંદ માતા એટલે હિંદુસ્તાનના લોકા; અને હિંદુસ્તાનના લોકા એટલે ખેડુતા અને ખેતીજા અંગના મજુરા. જે પ્રજાના ૮૦ ૮કા ઉપરના ભાગ પ્રત્યક્ષ અગર પરાક્ષ રીતે ખેતીના ધંધામાં પડેલા છે તે જ. હિંદુસ્તાનની પ્રજા અત્યારે કઇ દશામાં છે તે તપાસા. તપાસતા માલુમ પડેછે કે તે પરદેશીઓને ત્યાં વેચાણુ છે. પરદેશીઓને શું જોઇએ છે તે મુખ્ય વાત, અને પાતાને અને પાતાના છાકરાંને શું જોઇએ છે તે ગાણુ વાત થઇ પડી છે"
 - (b) સપૂત તેર કહેવાથ, જે સીધે માર્ગ ચાલે સપૂત તેર કહેવાથ, અધર્મને જે ટાળે સપૂત તેર કહેવાથ, જે સ્વજનને સુખ આપે સપૂત તેર કહેવાથ, દીનના દુઃખડા કાપે વળી સપૂત તેનું નામ છે જેણે પ્રભૂને પ્રીતે અરચીય! સામળ કરે સપુત નરે, દામ પરમારથ ખરચિયા.

- (લ) રસ્તામાં એ સી વરસની એક ડાસી મળી તેને ગાંધી-જીના ચરણમાં રૂપીએ એક ધર્યો અને પ્રણામ કરીને કહ્યું "ગાંધીજી સ્વરાજ લઇને વહેલા વહેલા આવનો". માતાના આશિર્વાદ કૃળા,
- 2. Write a story from Nitisikshan (Ad (શક્ષણ) that you like most in English.

B.

- 8. Translate into Gujarati:—

 There is a time for everything
 A time for work, a time for play
 Who does all things at the right time,
 Will happy be all day.
- 4. Write a short note on Ala.
- 5. What do you know of two of the following !— દલપત, કલાપી, અને અખા .
- 6. Give the Gujarati for :-

I eat. You eat. He eats. He will go. He should go. You must do it. It is your duty to help your family. I wish your success. She is very kind.

7. Give the English for:-

નિમક-હલાળ, પારંગત, સ્નાતક, સત્યાત્રહ**, સ્વરાજ,** કંજાૂસ, ધર્માત્મા, મહાત્મા, સત્**સંગ, અનુમાન** .

INDIAN VERNACULARS—SINHALESE (SUBSIDIARY)

FIFTH PAPER

Examiner-Rev. P. SEELANANDA

The questions are of equal value.

FIRST HALF

Answer ANY THREE

1. Translate into English:-

(a) दे अवद दुन्ध रहेददक्ष ट्रिन्थित । एक भक्त क्र क्रिक्ष पुरुष्टिक । अक्षप्र स्था देह की आब्द्र क्रिक्ष क्रिक्ष के किसी ये क्रिक्ष क्रिक्ष क्रिक्ष

(1) किका करा की लिए कर से तुरा भी स्व द कार्म रिश्व र स्था कि निश्व भी स्थान से की करा कि से दें के, उस की कि से कि रिश्व रिश्व कि से से की किस कि रिश्व की

5. Decline the following words :-

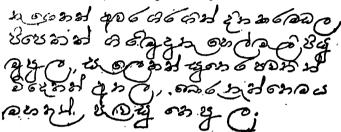
(N) Drd. .(4) cos.

Give a short description of the colonisation of Ceylon by Prince Vijays.
 What do you know about civic administration during the reign of King Pandukabhays?

SECOND HALF

Answer ANY THREE

1. Translate the following into English:-



- 2. Give a short sketch of the life of Buddha as given in "Amawatura"
- 3. Explain the following:-

ස්ථා ගැන පත ගෙන සහ නස් සේව ව භාද් අඛන නද්ර මන මන හැන හරසර පු යු දි ගු 6 න ගි ලි ද ල ජේල ගතා සේ සුබද රද්ද ස්ථා පත සිහ සිහ පත නම් සු

Give meanings of the following Words cos 20 coso, with the following Words 200, 20 coso, with 2000 coso coso.

5. Write notes on the following :—" Brahmajala Sutra " and " Ambatta Manawo."

SIXTH PAPER

Examiner-Rev. P. SEELANANDA

The questions are of equal value.

FIRST HALF.

Answer ANY THREE

1. What do you know of the author of "Kusajataka"? Give a brief description of his works.

2. Write short notes on the following :—" Amawatura," "Subhasitaya" "Kusajataka."

8. Give a short description of the life and works of "Buddhaghosa."
4. Trace the origin of the Sinhalese language.
5. Write notes on the following:—"Panduwasdew," "Kuwani,"
"Ummedachitra," "Asoka," "Lata Rata," "Annuradhapura."

SECOND HALF

Answer ANY THREE

1. What are the classifications of

Bos or Boss D' (Foots) in the Sindelese

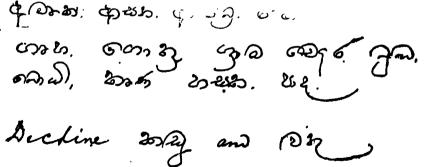
language; give illustrations of each type.



(Samāsa) are in Sinhalese? Illustrate your answer with examples.

3. How many vowels and letters are there in old and modern Sinhalese?

4. Give the Sinhalese form of the following Sanskrit words :-



INDIAN VERNACULARS—TAMIL (SUBSIDIARY)

FIFTH PAPER

Examiner—VEDANTAVISARAD N. S. ANANTAKRISHNA SASTRI

The figures in the margin indicate full marks

1. Comment upon the following sentences, pointing out their grammatical peculiarities:—

அபோத்யா என்பது ஒரு பட்டணம். தசரதர் அதை ஆண்டு வக்தார். அவள்முதுகு வளேக்கிருக்கும். அதனுல் அவளேகூனி என்பார்கள். அவளே ஸ்ரீராமர் பரிகாசம் செய்வார்.

2. Re-write the following passage in short simple sen- 10 tences:—

தசாதரின் வே*ெரு*ரு மீணவி கௌச**ஃயுடைய** புதல்வன் ஸ்ரீராமசக்திரனிடம் கைகேயி பிரியமுள்ள வளாயிருக்தாள்.

- 3. Frame three short sentences in Tamil, using the following terms: (1) Comparative degree, (2) Infinitive mood, (3) Verbal participles.

 4. Write a letter to your father stating your progress in study.
 - 4. Write a letter to your father stating your progress in study.

 5. Write a story in Tamil from the portions you have read.

6. Decline and conjugate the following nouns and roots (in Past tense) respectively:—

(1) வீடு, (2) காறு, (3) மகன், (4) பசு, (5) பாலம், (6) காது, (7) கான், (8) அவை.

(1) காட்டு, .(2) போ, (3) வா, (4) காண், (5) பாடு, (6) படி, (7) படு.

7. Join the Sandhis of the following:— 10
(1) கல் + கிலம. (2) கல் + கண்டு. (3) பொன் +
தகுடு. (4) கல் + இ. (5) காள் + தோறம்.

SIXTH PAPER

Examiner-Vedantavisarad N. S. Anantakrishna Sastri

The figures in the margin indicate full marks

- 1. Prove that Tamil is an independent language, stating reasons and citing examples in support of your answer.
- 2. State how many divisions are there in Tamil and when did it derive influence from Sanskrit.
- 3. Show whether Northern languages have got any influence over 15. Tamil.
- 4. Derive and state how the following came into usage in 15-Tamil:—
 - (1) அரவம், (2) பாண்டியன், (3) சூத்திரன்,

20

20

(4) தமின். (5) தமிழ்.

5. Translate the following passage into Tamil:-

Let me have a pencil. I will visit Delhi. Birds sing songs. The boy lost a book. We started for school. He entered my garden. God save the king. Long live the Emperor of India. May you be happy! He did pass the examination. We could not catch the train. We tried, therefore, to hire a conveyance. We hoped by this means to reach home. He recovered from his illness. The recovery was gradual. I had gone down the lane half-way. I found a constable beating a young man. Nothing could make him angry. He is a good and sensible man.

6. Translate the following into English:—

அங்கம் என்பது ஒரு தேசம். சோமபாதர் அதற்கு ராஜா. ஒரு காலத்தில் மழையில்லாமலிருந்தது, ஆறுகளில் ஒட்டம் இல்லே. குளங்கள் வற்றின. கிண-றுகள் பாழாயின. உஷ்ணம் அதிகரித்தது. ஒரே தாபம், உண்ண உணவு இல்லே, குடிக்க நீர் இல்லே. சுகம் இல்லே. ராஜா ரிகியகிருங்கமுணிவரை நாட்டுக்கு வாவழைத்தார். மழை பெய்தது, கேஷமம் பிறந்தது. பஞ்சம் துலேந்தது.

INDIAN VERNACULARS—MALAYALAM (SUBSIDIARY) FIFTH PAPER

Examiner-Rao Bahadur L. K. Anantakrishna Iyer, B.A., L.T. The questions are of equal value.

- 1. (Answer the question in Malayalam.) Why is the Lion called the king of beasts?
 2. What are the uses of the cocoanut tree?
 - 8. Translate into English the following verses:-

ത്തുറുമാസം പൂക്കു ബാലനായു ഉള്ള നാഠം, കൂറുള്ള മാതാവു വേച്ചിട്ടിരക്കവെ, വേടൻ വരുന്നതുകണ്ടുഭയപ്പെട്ടു, കൂടയുള്ള മുഗങ്ങാം മണുടിനാർ, ൊടുവാൻ വയ്യാഞ്ഞുഴലുമെന്നെതദാ, വേടൻ പിടിച്ചങ്ങകൊണ്ടു പോയിടിനാർം കേടുവരുത്താതെ കൊണ്ടുചെന്നാദരാൽ നാടുവാഴിക്കവൻ കാഴ്ചവെച്ചീടിനാൻ ആടു പതുുക്കളും രാത്രൌ വസിക്കുന്ന കൂടു തുറന്നതിലാക്കിനാൻ മന്നവൻ.

- 4. Give the meaning of the following words:-പാശങ്ങരം, ഗച്ചിക്കവെരുവ്വാം, ഭിനംപ്രതി, ഹിമകണങ്ങഠം, മാദ്ദ്വം, ശാഖ.
- Give the manmo's of the following: അഗ്നിജചാല, മാജ്ജാരവഗ്ഗാ, സൂയ്യകാന്തി പട്ട്, പൂവ്വരുപം, അല്പപ്രാണി, വൃക്ഷ ശാഖം
- 6. (a) Decline the word cool, morrows.
 - (b) Give the past tense of the following verbs:— വിവരിക്കുന്നു, എഴുതുന്നു, നോക്കുന്നു ചെയ്യുന്നു.
 - (c) Give the plural number of the following words:— ത്തന, വികാരം, വേടൻ, പാശം, ജാല, ഭൂജം

SIXTH PAPER

Examiner-Rao Bahadur L. K. Anantakrishna Iyer, B.A., L.T. The questions are of equal value.

1. State what you know about the origin and early history of the Malayalam language.

2. What are the four epochs into which the Malayalam literature is

divided? What are the distinguishing features of each period?

Mention two of the great Malayalam poets. Write a short account of the life-history of one of them.
 Write a brief history of the Malayalam drama. Give the names of

a few of the Malayalam dramas.

5. Give a short account of the part played by Raja Raja Varma in

the field of Malayalam literature.

6. When did the prose fiction begin in the Malayalam literature? Give the names of three of the classical works.

INDIAN VERNACULARS—URDU (SUBSIDIARY)

FIFTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiner-Khan Bahadur Shamsul-Ulama Hidayet Hossain (Unseens)

1. Translate into English :-

£5

خلیفه دارون الرشید اکثر رات کو اکیلا بهیس بدلکر شہر بغداد میں پھرا کرنا - ایک دن اس نے ایے وزیر جعفر سے کہا کہ آج رات کو میں کہر کی سیر کو نکلونگا مين معلوم كرنا چاهنا هون ١٦ ميري رعيت كس حال میں ہے اور تھانیدار کیسا کام کرتے تھیں - اگر انکا کام اچها دیکهونکا تو انکو انعام دونکا اور اگر تھیلے پائے جائینگے قو انکی جگه دارسرون کو مقرر کرونکا ۔ غرض رات کو خلیفه اسے رزیر کو ساتھ لیکر نکلا۔ درنوں نے ایسا بھیس بدلا تھا کہ کسی طرح پہچائے نہیں جائے تیے۔ پھرتے پھرتے رہ ایک تنگ کلی میں پہنچے ۔ چاندنی میں ایک شخص

دکهائی دیا جسکا قد لمبا تها اور دارهي سفید تهی ـ جال سر پر اور توکوا کندھ پر دھرے ھوے لاتھی تبکتا چلا جانا تها - خلیفه نے کہا یه شخص بہت غریب معلوم

هوتا هے *

B.

علی بابا گھر پہنچکر گدھوں کو اپنے مکان کے اندر لیکیا اور باهر کا دروازه بند کرکے اوپر کی لکتریا اتارین اور پہر اشرفی کی تھیلیوں کو اتار کر اپنی بی سے پاس لیگیا - بیبی کو شبه هوا که یه اشرفیان کهین سے چوا کر لایا ہے - ایٹ شوھر سے کہا تم نے یہ بہت برا کام کھا۔ علی بابا نے کہا میں نے چوري نہيں کی - پھر اس نے سب حال شررع سے اخیر تک بیان کیا رہ سدکر نہایت خوش هوئی اور اشرفیوں کو گننے لگی ۔ علی بابا نے کہا تم کہاں قت گنوگی - میں ایک خندق کہود کر اس خزانے کو کارت ہوں ہی ہی نے کہا بہت اچھا مگر میں اسکا اندازه کرنا چاهتی هون که یه کتنی اشرفیان هین ـ مین انہیں تول کر دیکھونگی علی بابا لے کہا تمکو اختیار ہے مگر خبردار یه بات کسی کو معلوم نهو *

(PRESCRIBED TEXTS)

2. Translate into English :-

اجل سر پر آ پہونچی تمام لینا لوانا مارا پڑا ای کاش مين كچهه نهين تو دس باره برس هي ادر جي جاتا تو یه سب انتظام اپنی خواهش کے مطابق درست کر لیتا بال بچے بھی ڈوا اور سیائے ہو جائے اور کھانے کمانے لگتے ادهر انکي شادي بياه کرچکتا گاؤن کا معامله بهی رو براه هر جاتا - مكان كو اس طور پر بنا ليقا لوگون كا حساب كتاب سب صاف كرديت كهر والى ك السلم كجهه دخيرة 15

فاتع فراهم کر جاتا تب فراغت سے مرتا کیا مرنے میں مبحكو كچهه عذر يا خدا نخواسته كسى طرح كا انكار تها يا. میں اتنی ذرا سی بات نہیں سمجھتا که دنیا میں آکر مرنا ضرور هے مگر هر چيز ايک رقت مناسب پر ٿهيک هوتي هے يه بهي كوئي مرنا هے كه هر ايك كام كو إداهورا هر آیک انتظام کو ناقص و ناتمام چهور کو چلا جاؤن * 3. Frame sentences, using the following:-

بلی کے بھاگ چھینکا ترتا۔ ارنچی درکان پھیکا پکوان ارنت کے منہ میں زیرہ ۔ برے بول کا سر نیچا - رونگئے کھتے ہونا *

SECOND HALF

Examiner-Khan Bahadur Shamsul-Ulama Hidayet Hossain (PRESCRIBED TEXTS)

1. Translate into English :-18 اسی پسر همیشسه بهسروسه کرر تم اسی کی سدا عشق کا دم بهرو تم

اسی کے غضب سے درو جب درو تم

اسی کی طلب مین مرو جب مرو تم

مبرا ہے شرکت سے اسکی خدائی نہیسن ارسکے آگے کسیکسو برائی خرد اور ادراک رنجـور هین ران

مه ر مهر ادنی سے مزدور هیں وال جهاندار مغلوب و مقهسور هین ران

نبی اور صدیق مجبرر هین وان نه پرسش فے رهبان ر احبار کی ران نه پروا هے ابسوار و احسرار کی وان

2. Explain fully in Urdu :-باغ طلسم چهسرا رفگین هے بار کا (۱) رهاا ھے جار فصل میں موسم بہار کا

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4. Write notes on :-

فاران - عزَّى جبرالتّر - حمرا - برقبيس

معیشت - ماری ـ مس *

SIXTH PAPER

FIRST HALF

Examiner-Mahammad Ishaque, M.A., B.Sc.

(ELEMENTS OF GRAMMAR)

The figures in the margin indicate full marks.

- What are the different rules of distinction of gender in Urdu?
 Mention the different tenses where غ is used and show its
 Mention the different tenses where غ is used and show its
 Givets on the gender and number of verbs.
 Give the genders of:—
 خهی درا مزاج *
 (a) Give the Urdu plurals of the following words:—
 - (b) Fill up the blanks:
 میں حضرات حضرات شکریه

 کرتا هوں که آپ اس جلسے کی صدارت کا کہا ہے

 مجیے عطا اور میری اس کو نہایت کی کیساتهه
 سنگر مجهه یہ ۔ نرمایا *

SECOND HALF

Examiner-MAHAMMAD ISHAQUE, M.A., B.Sc.

(PHILOLOGY)

1. Write philological notes on any four of the following words:— 8- نیلام - آلینه - ناخدا - هاتهی - کاے - دانت

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11

2. Derive any four of the following words:—
مردمک ـ درد ذاک ـ دلنشین - بوستان - کوهسار ـ رهنما ـ
آهنگر *

(HISTORY OF LITERATURE)

- 1. Trace the origin and growth of the Urdu language and literature.
- 2. Give a short account of the life of Hali and mention the 12 characteristics of his poetry.
 - 3. Compare Anis and Dabir as Marsiya writers.

INDIAN VERNACULARS-MARATHI (SUBSIDIARY)

FIFTH PAPER

Examiner-Dr. Surendranath Sen, M.A., Ph.D., B.Litt.

The questions are of equal value.

1. Translate into your own vernacular:-

युरोपीयन शिक्षकांस आपलें कर्तब्य आपल्या नवीन व प्रगमनशील संस्कृतीचे पुरस्कर्ते या नात्यानें करावयाचे असतें। अथांत त्यांना आपल्या कामाचें महत्व व आपली जबाबदारी ओल खूनच काम केलें पाहिजे। आणि तोच नियम इकडोल आपल्यामधील तयार झालेल्या शिक्षकांस लागू। इकडे प्रथम प्रथम आलेले युरोपीयन प्रोफेसर लोक फार उत्तम पंकों असत। हांवडं, प्रंट, पुच्याचे मेजर कंडी वगैरे हरएक दृष्टींनें पिहल्या नंबवचे अध्यापक होते। यामुलें इकडे प्रथम तयार झालेले नवीन पद्धतीचे शिक्षक जे निघाले ते देखील उत्तम पैकींच होते। आणि त्यांनीं पहिल्या कांहीं पिढयांतील विचार्थ्यांना 'चांगली शिक्ष व वळण लावच्याचा प्रयक्ष केला।

- 2. Explain clearly the following extracts:-
 - (a) नाही संतपण मिछत हें हार्टी ॥ हिंदतां कपार्टी रानीं वनीं ॥ नये मोछ देतां धनाचिया राघी ॥ नाहीं तें आकाशीं पातार्छी तं ॥

- (b) जरी झाळा भाग्यवंत ॥ तरी का भेटेल भगवंत ॥ उंच वाढळा एरंड ॥ तरो का होईछ इक्षदंह ॥ जरी गर्डभ वेगीं घांवे ॥ तरी का अश्व-मोल पावे ॥
- 3. What forms in your opinion the special feature of Raghunath Pandit's नलटमशंती खरांवरा-स्थान ?
 - 4. Amplify the meaning underlying the following:-
 - (a) जिवलग जिव घेती प्रेत सांहोनि देती ॥ विषय सक्छ नेती मागुना जन्म देती॥
 - (b) विसंवीस भायच्य हें क्यर्थ छोटे ॥ उदासीन हा काछ कोर्टे न कंटे ॥
 - 5. Explain the teaching of Ramdas as expounded in your text book.

SIXTH PAPER

Examiner-Dr. Surendranath Sen. M.A., Ph.D., B.Litt.

The questions are of equal value.

 Trace the origin of Marathi language.
 Indicate the influence of non-Indian languages on Marathi language and literature.

8. Give a brief account of the life and writings of Eknath. 4. Estimate the literary achievements of Vaman Pandit.

- 5. Illustrate how negative forms of a verb in the present, past and future tenses may be produced by employing the negative forms of the verbe असर्थे and हीयें।
 - 6. Form short sentences with the following words:-सारला, आपळ्पोटी, जात्या, यजमान, यात्रा, अरेराव, अर्वाचीन, तलमळ ।

INDIAN VERNACULARS—BASIC LANGUAGES (Pali)

SEVENTH PAPER

Examiner-Mr. SAILENDRANATH MITRA. M.A.

[Full marks-50.]

The figures in the margin indicate full marks.

1. What are the claims of Pali to be regarded as "basic" in relation to Indian Vernaculars? Give your answer with illustrations. 45-81

Or.

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16

Estimate the value of the Pali Birth Stories as illustrative exposition of popular Buddhism.

- 2. Sum up Nagasena's reply to one of the following questions, together with the similes employed and adding your own observations on the subject-matter:—
 - (a) Yo uppajjati so eva so udāhu anho ti.
 - (b) Ko patisandahati ti.
- 3. Translate into English or your own Vernacular four only of the following extracts (two from Group A and two from Group B), adding philological notes where necessary:—

A

- (a) B dhisattassa Gangāva pānīyam pivitvā Gungātīre nicinnakāle santikam gantsā evam āha: "vānarunda, imasmim padese kasataphadāni khādanto kim tvam ciņņatthāne yeva carası, pāra Gangāya ambalabujādīnam madhuraphalānam anto n'atthi, kin te tattha gantvā phalāphalam khāditum na vattati" ti.
- (b) Manussā tam disvā somanassa: I-ā "etam "yyo sobhaggarpattam susikkhitasakunarā: ānam amlākamdet!ā" ti āham u. 'Amhehi pathamam kāko ānīto tam ganhitha. idāni etam morarā: ānam ānayimha. etam ni yācatha, tumbākam ratthe sakuņam nāma gahetvā āgantum na sakkā" ti.
- (c) Pādā udakamhi na osīdimsu. So pathavītale gacchanto viya vemajjham garakāle vīcī passi Ath' assa Buddhārammaņā pīti mandā jātā, pādā osīditum ārabhimsu So pana Buddhārammaņam pītim daļham katvā udakapitten' eva gantvā Jetavanam pavisitvā Satthāram vand tvā ekamantam nisīdi.
- (d) Aparam pana ekadivasam Bodhisatto tath'eva uyyanam gacchanto devatahi nimmitam kalakatam disva purimanayen' eva pucchitva samviggahadayo puna nivat tva pasa lam abhiruhi. Rajapi pucchitva hettavuttanayen'eva samvidahitva puna vaddhetva samantato yojanappamane padese arakkham thapesi.

B.

- (a) Yam te tam nappasahati senam loko sadevako |
 tam te paññāya bhañ āmi āmam pattam va amhanā ||
 Vaaim karita samkappam satiñ ca suppatiţihitam |
 raţihā raţtham vicarissam aāvake vinayam puthu ||
- (b) Anumatto pi puññena attho mayham na vijiati | yes-ñ ca attho puññānam te Māro vattum arahati || Atthi saddhā tato viriyam paññā ca mama vijiati | evam mam pahitattam pi kim jīvam anupucchasi ||
- (c) "Andhakamakasā na vijiare. kuche rūļhatine caranti gāvo vutthim pi saheyyum āgatam atha ce patthayasi pavassa deva" || Baddhā hi bhisī susamkhatā, tinno pāragato vineyya ogham |
 attho bhisiya na vijiati, atha ce patthayasi pavassa deva" ||
- (d) Lābhā vata no anappakā ye mayam Bhagavantam addasāma i saranam tam upema cakkhuma, satthā no hohi tuvam mahāmuni i Gopī ca ahan ca assavā, brahmacariyam Sugate carāmase i jātimaramassa pāragā dukkhass' antak arā bhavāmase i
- (i) Write notes on any four of the following:—
 Jetavana, tinnam ratananam, sakadāgāmiphala, Mahāpadāna,
 M āra, and Bāveru.

(ii) Illustrate the use of any four of the collowing terms or expression in Pali and show how very have been represented in the Vernaculars: thapetvā, patthāya, ārabbha, cattāro dasakā cattālisā, cha chakkāni, bhānyam nacchāda, and ham ti vā hum ti vā.

(PRAKRIT.)

SEVENTH PAPER

Examinere— { MR MURALIDHAR BANERJEE, M.A. PANDIT VIDUSEKHAR SASTRI

[Full Marks-50.]

Answer THREE questions only, of which Questions 1 and 3 are compulsory.

- 1. (ग) हण्ड कुम्मि?आ कथेहि किंहं तए एशे महाछदनभाशुळे 20 उक्किण्णगामक्खले लाअकीए अङ्गुलीअए शमाशादिदे॥ पश्चोदन्तु भाविमश्या। ण हगे ईदिशश्या अकय्यश्य कालके॥ शे हगे याछविक-शप्पहुदीहिं मश्चवन्थ्र गोवाएहिं कुदुम्बभलगं कलेमि॥
 - (व) वियष्ठ वज्ञन्तशे गिए, वियष्ठ ।

 बोलन्ति अ पेच्छन्ता पडिमा
 संकन्तधवलघगसंघाए ।

 पुडफडिहसिकामं कुळलि छो
 वरिपस्थिए विश्र णह्प्पवेह ॥

 उत्यक्तिअदुमिवहा गिरि
 धाउम्बत्तमुच्छिअमहामच्छा ।
 वेलासेलक्लिआ उद्धं

 भिज्ञन्ति उश्राह-जलक्कोला ॥
 - (c) तथा दीहं नीससिक ग जम्पिअं पञ्जोएग मयगवसगस्य नरवर वाहिविघत्तस्य तह अ मत्तस्य । कुवियस्य मरन्तस्य अ छज्जा दूरुज्जिया होह ॥
 - (ग) यक्सिमादाय गीवाथ नारासवछयेन सो । वामहत्थेन केसेसु गहेत्वा दक्सिणेन तु ॥ वक्सिपित्वा असिं आह असे मे देहि दासि, तं । मारेमोति अयुहा सा जीवितं याचि वक्सिनो ॥
 - (i) Translate (a) and (b) into Sanskrit.
 - (6) Explain (c) and (d) giving Sanskrit equivalents.

(iii) Name the languages or the dialects, as the case may be,

of the passages quoted above.

(iv) Explain the long ā in kumhilaā in (a) and support or smend the reading -akkhale in ukkenna-nāmakkhale in that passage. What reading would you suggest here according to your Prakrit Grammar, Prākritaprakāśa?

(v) Explain the form cyisttha in (b) and durujjhiya in (c),

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writing a short note.

(vi) Write briefly the difference between (a) Sanskrit and Prakrit, and (b) Māhārāṣtrī and Saurasenī.

2. आहणिजण सरोसं तं हिश्यं विं झमेलिसहरामं ।

मोआविओ मए सो दन्तन्तरणंिओ परिव्वाजओ ॥

परं जोषहा उष्हा गरलपरियो चन्दणस्यो

स्थक्तारो हारो रआग-पवणा देहतवणा ।

मुगाली बाणाली जलह अ जलहा तणुलआ

वरिद्वा जं दिद्वा कमल्वअगा सा सुगअगा ॥

Translate the above passage into English.

- 3. (") पारिपाश्वंकः—(स्मृत्वा । कधिरं ज्जेब्न छ्इल्ले हिं। 20 सो सप्टओं त्ति भगई दुरं जो णाडिआई अणुहरई । किं वण एत्थ पवेसअविक्रमाई ए केवलं होन्ति ॥
 - (ं) राजा—(विदूषकमपवार्थ्य ।) एदाए जं मुक्का सवणन्तरेण तरला तिक्खा कडक्खच्छडा शिङ्गा धिद्वित्र केअअगिगतर्छ हो गी-परि च्छच्छई । तं कप्पूरसेण णं धवलिदो ज्योह्वाअ णं ह्वाविदो मुत्तागं घगरेणुग हव छरिहो जादोह्वि एत्थन्तरे ॥
 - (c) विदूषक :—गव्भघरवासेग सेअप्ति छिपत्तगत्ता हं भूता वित्यभोदी कप्प्रमञ्जरी। ता इमं सिचअञ्चलेण वीजइस्सं दाव ! । तथा कुर्वन् । । हा हा कथं विरिष्ठपवणेण पवणेग गिव्वण्णो पदीवो। विचिन्त्य स्वगतम् । भोदु । छीछोज्जागं ज्लेब्व गच्छहा। (प्रकाशम् ।) भो, अन्धआर गच्चितं वहदि । ता गिकामहा सुरक्गामुहेन ज्लेब्ब पमहु च्छाणं दाव ।
- (i) Turn extract (a) into English. What is a বয়ৰ Wherein does it differ from a বাহিষ্যা?
- (ii) Turn extract (b) into Sanskrit. Shew how the meaning of the stanza is improved if जिल्ला is read as जिला।
- (iii) Explain fully in English extract (c) indicating the context. What dramatic purpose is served by façam putting out the light?

4. Give the Prakrit forms of any four of the following, referring to rules of grammar:—

आत्मा ; अश्वः ; इक्ष्ः ; कृष्णः ; कृत्वा ; स्नानं ; पृथिवी ।

5. Form four sentences joining the inflected forms of any of the 10 following bases and roots:—

कुग; पढ़; बुब्ब, गेग्ह. तुस्ह; पाउअ; पण्ह; वसह; वाह; संसु।

(PERSIAN.)

SEVENTH PAPER

Examiners—

AGA MD. KAZIM SHIRAZI.

SHAMS-UL-ULAMA HIDAYET HOSSAIN, KHAN
BAHADUR.

The figures in the margin indicate full marks.

1. (a) Translate into English any six of the following:

دربش به پادشاه چه گفت ـ سلطان محمود غلامی

داشت ایاز نام نوکو در کلاغ در یکحا دبد - بر پل شخصی

سیاه دیدم - در کوچه برد ر بمید آن آمد ـ شخصی شیطان را

در خراب دید - برهنه شده در حوض آب رنتند ـ علی

نزد پدر عرض کرد - در ایران ررد خانه زیاد است - در

حضور پدر دی اذن نمی نشست ـ مردی احمق خر خود

را گم کرد *

- (b) Select any five words from sentences given above that are commonly used in your vernacular, noticing change, if any, in form and meaning.
 - 2. (a) What do you mean by izafat? When is it used?

(b) What are the chief divisions of Name them with English equivalents.

3. How is Imperative formed in Persian? Give the Imperative and رُورِي - خُوابِيدِي - نُرِشتي - دربدي

4. Give in Persian, both in words and figures: 7, 18, 26, 38, and 106.

5. Translate into Persian any six of the following:—
It is a black horse. The house is small. Come to-morrow.
This flower is yellow. He is a blind boy. We will go. It is a big garden. He is sick. I will give the book. Go away from here.
He has come. She is a good girl.

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6,

5 19

INDIAN VERNACULARS—BENGALI

EIGHTH PAPER

Examiner—Prof. S. K. Chatterji, M.A., D.Lit.

The questions are of equal value. Select SIX questions only.

1. What New Indo-Aryan speeches are the immediate sisters consins of Bengali? What special features does Bengali possess in common with these? Indicate by means of a diagram the relationship of Bengali with Oriva, Maithili, Hindustani, Panjabi, Guiarati, Marathi, and Sinhalese.

2. Discuss the problem of the Non-Arvan element in Bengali—in

vocabulary, in characteristics relating to morphology and idiom, and in

tendencies.

Write a short account of the accent system of Bengali in its historical bearings.

Or,

Discuss the phenomenon of Umlaut in Bengali.

4. Discuss the character of the language of the Caryapadas.

Classify the dialects of Bengali, mentioning the special features of

each dialect-group.

6. Estimate the extent and character of the Persian element in Bengali, giving at the same time a brief historical survey of the question of Persian influence on the language throughout the centuries after the conquest of Bengal by the Turks.

7. Give in a tabular form the consonant sounds of Bengali as in the Standard Colloquial Dialect as spoken in Calcutta, and discuss the nature

of the Bengali fricative sounds and semivowels.

Or.

Give the history of the final vowels of Old Indo-Aryan (Sanskrit)

through Middle Indo-Aryan (Prakrit and Anabhramsa) in Bengali.

8. Explain, with examples, the working of four of the following phonetic processes in Bengali: Compensatory Lengthening: Anantyzis; Spontaneous Nasalisation: Assimilation of Consonants; Deaspiration; Spirantisation; Vowel Harmony.

Or.

Discuss the treatment in Bengali of the following sounds of Persian in Persian loan-words in the language :-

ء, ش, ز, ف, خ

9. Discuss the origin of the plural and the genitive and locative affixes in the declension of the Bengali Noun.

10. Trace the history of the forms for the Bengali personal pronouns for the first and second persons.

11. Write a historical account of the passive voice in Bengali.

Explain the formation of the base for the simple past tense of the Bengali Verb, as well as the origin of the compound tenses.

INDIAN VERNACULARS—HINDI

EIGHTH PAPER

Examiners—{ Prof. S. K. Chatterji, M.A., D.Lit. Mr. Basantakumar Chatterjee, M.A.

HINDI PHILOLOGY

The questions are of equal value.

Select only six questions.

1. Discuss the successive stages in the evolution of Hindi from Old Indo-Aryan (Vedic), with illustrative examples of words and forms.

2. 'Hindī and Urdū are only communal names of the same language with almost the sole difference of script.' Criticise this remark with suitable illustrations. What is the proper meaning of the term 'Hindustānī'? Comment on the spelling (FRR).

Or.

Write a brief history of the origin and use in literature of the खरी-

3. Write a brief note on the extent of the foreign influence in Hindi, giving illustrative words.

4. Discus: the accent-system of Hindi, with special reference to the influence of accent on vowels.

5. Give a short account of the vowel system of Hindi, and trace the sources of two of the following vowels of Hindi: \(\mathbf{q}, \mathbf{q} \).

7. Write an historical note on the agreement in gender between nouns and the adjectives and participles qualifying them in Hindi. Can you general se any rules about the gender of borrowed foreign words in Hindi? How do Sanskrit words behave in this matter?

8. Give the source of the inflexions and postpositions in the declension of the noun in the आहर वाला

9. Explain the formation of the pronominal adverbs and adjectives used in the agree of

10. Give a classification, historically considered, of the tense forms of the Hindi verb, and indicate the origin of the following tenses:

আহ'না, আহ'না, কিবনা, কিবনা, কিবনা,

Or.

Write an historical note on the three Prayogas—kartari, karmani, and bhove—of the Hindi verb in the past tense.

INDIAN VERNACULARS—URDU (PRINCIPAL)

EIGHTH PAPER

Examiner-Prof. S. K. Chatterji, M.A., D.Lit.

The questions are of equal value.

Answer BIX questions only.

- 1. Indicate the place of Urdu in the family of Indo-Aryan languages. Explain also its relationship with Sanskrit, Persian, Greek, Brench, English and Russ an. Draw genealogical tables in illustration of your answer.
- 2. What are the various views as to the origin of Urdu? Which of the following dialect: forms the basis of Urdu—(i) Bra'bhākhā (ii) Kharī-bolī of Western United Provinces, (iii) Panjabi of Lahore? Explain clearly your reasons in affiliating Urdu to any of the above.
- 3. What are the extant remains of Urdu literature prior to 1650 A.D.? Indiate their character and importance for the study of the philology of Urdu.
- 4. Discuss the alcent system of Urdu, and write a short note on vowel quantity in Urdu verse.
- 5. What are the sources of the Urdu oblique forms in the declension of the noun-
- -ē, -ō 'as in ghōrā—oblique ghōrē, ghōrō) ? Give the derivation of the postpositions $k\bar{a}$, -sē -nē, -mē
 - 6. Discuss two of the following:-
 - (i) Spontaneous Nasalisation.
 - (ii) Euphonic Insertion.
 - (iii) Cerebralisation.
 - (iv) Compound Verbs.
- 7. Give the history of the Urdu pronominal forms for the first and second persons from Old Indo-Aryan (Sanskrit) downwards.
- 8. Discuss the origin of the present sorist, future and present progressive tenses of Urdu (e.g. calā, calāgā, cattā). Explain the construction of the following sentence and the formation of the verb in it كل مين نهائى
- 9. (a) Write in the Perso-Arabic (Urdu) character as well as in properly transliterated Roman Urdu the following words करेल भेंस, पदा, रेसना, राजा, कंट, खु.द. ग्र'व. = जूर. वहस मज़हब, खास.
- ف ژ b) What are the original sounds of ش م م م م , and of ث ف , and of ث غ , and of ث غ , and of ث
 - 10. Explain eight of the following forms:-
- حجن ,کوتوال ,بندگان ,مسلمان ,میواجات ,خدا ,الله ,خانم ,بهادر ,استانی ,هندر ,فرنگی ,صدی ,بادشاه ,دیو

11. Write etymological and semantic notes on eight of the following Arabic words:—

ب علم , مرحوم , رلایت , نراب , انجل , صونی , مکتب , سکه , شنبه ,

Or,

Compare and contrast the grammatical system (sounds, affix system, and syntax) of Urdu with that of Arabic.

12. Trace back to their Old Indo-Aryan (Sanskrit) equivalents, through the Middle Indo-Aryan (Prakrit), two of the following Urdu sentences:—

- (a) اس نے یہ بات سنی -
 - (b) میں جا نہیں سکتا۔
 - (c) دلها بياه كرنے كو آيا -
- (d) مان' مجيم بهرکهه اور پياس لگی <u>ه</u> ـ

COMPARATIVE PHILOLOGY

FIRST PAPER

Examiner-Mr. SUKUMAR SEN, M.A.

The figures in the margin indicate full marks.

The figures in the margin indicate full marks.	
1. Give a brief survey of grammatical study in Ancient India.	15
2. Write short notes on the following names and titles:— Leskien, Hirt, Bartholome, Kāšikā, Pischel, Nighantu,	15
Bhandarkar, Beames, Pott, Asroli.	
3 What are the main characteristics of the Semitic languages?	80
What are the chief languages of this family? How are they connected with each other? Is the Semitic family of languages genealogically connected with the Hamitic and the Indo European families?	
4. Write a short essay on word formation. Or.	15
Discuss the main factors of linguistic change.	12
5. Discuss the origin of doublats. Give suitable examples from	15
Sanskrit, Bengali and English. 6. Write full semantic notes on the following words: thing,	20
শ্লীain, quaint, maudlin, idiot, candidate, পোসাই, পাবও, হয়কী	

Oτ.

What are the main directions of meaning change? Account for the fact that semantic change is much slower than phonological change in a language.

SECOND PAPER

Examiner-Prof. I. J. S. TARAPOREWALLA, B.A., Ph.D.

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16

16 16 16

The figures in the margin indicate full marks.

Answer the first question and any five of the remainder.

What are the main considerations to bear in mind in dealing with Linguistic Palæontology? How far does this branch of Linguistics depend on other sciences?

2. What do you know about either Kharosthi or Cuneiform? 16 Give details.

8. Discuss fully the vowel sounds in Sanskrit, giving a detailed classification. How far do the courlusions of Sanskrit grammarians in this respect agree with those of modern phonetics?

4. Discuss the merits of Devanagari as a phonetic script.

5. What do you mean by sonants, retroflex, bi-labial, and liquids?

6. What parts of the vocal apparatus are utilised in pronouncing

the following:-

wi. c. z, and v?

If possible, illustrate by means of diagrams.

7. 'Assimilation seems to be at the root of most Sandhi rules.' 16 Can you justify this statement? Illustrate by suitable examples from Sanskrit, Bengali, and English.
8. Give four instances each of metathesis, haplology, dissimila-16

tion, and umlaut.

Explain clearly what is meant by each of these terms.

THIRD PAPER

Examiner—MR. KSHITISCHANDRA CHATTERJEE, M.A.

The questions are of equal value

Answer ANY SIX questions.

1. Write a short essay on the classification of the Parts of Speech in Sanskrit and in some other Indo-European languages, ancient and modern, that you know.

2. 'The distinction between the active and passive verb in most Indo-

European languages is illusory.' Discuss.

3. Discuss fully the phenomenon of Syncretism, with special reference to Sanskrit, Greek, Latin, Pali, and the Prakrits.

4. Write a note on the pronominal declension in Sanskrit with comparisons from other ancient Indo-European languages.

5. Write short notes on: (1) the Vedic Infinitive, (2) Governing Compounds, and (3) the Category of Aspect.

6. Discuss the origin of the ignifa's and account for the strong, middle, and weak nominal endings.

7. Comment on the following:

- (1) शक्यमासिङ्गितः पवनः।
- (2) मशकाय धूमः।
- (3) इगन्धिः पवनी वाति ।
- (4) तेनास छोकः पित्रमान् विनेता ।
- (5) युधिष्ठिरः श्रेष्ठतमः कुरूणाम् ।
- 8. Write a note on the समासाम in Sanskrit.

FOURTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-Pandit Vidhusekhar Sastri

Answer THREE questions only.

- 1. Explain how the Militle Into Aryan stage evolved out of the Old Indo-Aryan. What are our oblest industrious about the formation of Middle Indo-Aryan? Mention also the earnest specimens of Militle Indo-Aryan that we possess.
- 2. Write notes on two of the following: (a) Cerebralisation in Middle Indo-Aryan; (b) Intervokal Stops and Aspirates in Middle Indo-Aryan; (c) Spontaneous Nasalisation.
- 3. Indicate clearly the position of the Gatha dialect in the history of Indo-Aryan.

Or,

What do you understand by Apubhramsa?

- 'Each Molern tudo-Ary in Vern scut ir is based on a local Apabhraméa.' Discuss this statement.
- 4. Write note on the desi and freign words in Middle Indo-Aryan. Are there desi words in Sanskrit? If so, how did trey cone into the language? Give instances.
- 5. Discuss the use of the Prakrits in the Sanskrit draws. How far are these to be taken as local dialects current in the various parts of the country?
- 6. Identify the dialects of three of the following passages, and write a short note on each dialect :-
- (a) Sutanukā nāma devadā ikyī: tam kāmayitha balana-šeye: Devadinne nāma lūpadakhe.
- (b) išthiāņam šadam mālemi: šūle hage...hage valapuliša-maņušie kāmaīdavve.
- (c) Sadhu matapituşu kukruşa, mitra samıstuta-hatikanam co bramanakramananam sadhu danam, pranana anarobh sadhu.
 - (d) jīviu kāsu na vallaho i dhanu puņu kāsu na iţţhu l douni vi avasari nivadiat ii ia-s iwa ga iat vistthu l

SECOND HALF

Examiner-Prof. Suniti Kumar Chatterji, M. A., D. Lit.

- 1. (a) ido vi podhame pa tthe sisisahkhamun stasacchāhāo viņihidacuņņamuthipāņdu āb vivii arauņapadi addhik incap sovāņasohidā pāsādapantio
 olan bidamuttādāmi him piestiha- ādāyaņamuha undehim ni hāyanti via Ujaiņims
 sottio via suhovavitho ņiddāadi dovario, sadaliņā salamodaņeņa palohidā ņa
 bhakkhanti vāssā bulim sudhāsa aņņidāe.
 - (b) golí nafe kacche cakkhauto raïa, pattaim ! "
 upphadaï makkado khokkei a pottam ca pittei #
 - (c) akaramh ise te kiccam yam balam ahur imbas- i migarāja namo ty-attbu api k fici labbāmase i akarafijum akaitāram katissa phitikārak im i yasmim katafifiitā n'attbi nīrattbā tassa sevanā a

yassa sammukhacinnena mittadhammo na labbhati l anusuyyam anukkosam -anikam tambā apakkame l

- (i) Render the above passages : to English.
- (ii) Name the dialects in which (a) and (b) are composed and mention their special characteristics.
- (iii) Derive cakkhanto in (b) tracing its Sanskrit origin, if any, and explain pottam and pitter in the same passage.
- (iv) Explain ty-atthu (giving another example of the sandhi), akaramhase, churamhase, and labhāmase in (c).

Or.

- (i) Translate the following passages into English:-
- (a) nīsāsā hāralatthī sarisaparisarā cand nu caņḍakārī, caṇḍo debassa dāho, sumaraņu saraņā bāsasobā muhammi l anījāņam paṇḍ ibhāvo di ibasasikalākomalo kiñca tīe niceam bāhappavāhā tuha subra kas honti kullābi tullā l
- (b) goläadattiiam peechiü ii gahivai uam haliasoyhä lädhattä uttarium dukkhuitäräe paavie ||
- (c) peccha a sarahasohariamand daggahi. ha visamacchinna pl du adhanu amghuancias rapunkha liddhasamaliaa an am l nisiarakaagguhan nilada dan thabi indibhuma abbangam l galiaruhira idhalahun an chia-ummillara sam ramasi am l
- (d) 8.) sā thū ti tam passena nipa āpētvā ko jānāti kim p'esa karissatīti cintetvā ya hā mukham pidahirum na sakkot tatha tassa adharotthe ca uttarotthe ca dandakem thapetvā mukham pavisitvā atthikot m tund na pahari atthi patitvā gatam. so atth m pātet ā sīha sa mukhato nekhamanto dandakam tundena pidarītvā pā ento nikkamītvā sākhag e nīlīyi.
- (ii) Give the alternative form, if iny, of souha in (b).
- (111) Write the meaning of, and de live ādhaltā in (b) and write its form in passive, present, third person, singular
 - (ir) Write the alternative forms of pagvie in (b).
- 2. (i) Discuss puil logically the formation of any six of the following words, giving their Sunskill equivalents: gheppati, dakkhati, acchati, kālave, damsedum, latthi, cinna, guttha, bāha āliddha, pellia, and garu.
- (s) Compose three sentences in Pali using verbs from any three of the following roots as directed: \(\sqrt{ghas} \) (de-iderative), \(\sqrt{chid} \) (acrist), \(\sqrt{kram} \) (inten ive), \(\sqrt{da} \) (causative) \(\sqrt{vas} \) (past participle), \(\sqrt{hr} \) (sorist), \(\sqrt{grah} \) (infinitive).
- (iii) Compose three sentences in Prakrit using any three of the following roots: \sqrt{masj} , \sqrt{lih} , \sqrt{vraj} , \sqrt{jalp} , \sqrt{mrd} and \sqrt{sak} .
 - 3. Translate the following into English:-
 - (6) Vijayapi amukhā sab c tam upecca ipucchisum i ayam bho ko nu dīpo'ti, lankādīpo ti abruvi ii na santi manuiā etiha, na ca bessati vo bhayam i iti vatiā ki ndīkāyam te jalena ni sincīya ii sutram ca tesam hatibesu laguetiā nabhasāgamā i dassen santrūpeņa paricārikayakhlinī ii eko tam vāri soto pi rājāputtena anvagā i gāman.bi vijjan ānambi bhivanti sunakhā iti ii tassā ca sāminī tattha Kuveņī nāma yakkinī i nisīdi rukkhan ūlambi katantī iāpasī viya ii
- (b) tae ņam Sildhatthe khattie paccūs kālasam ayamsi kodumbiyapurise ∉addavei,—ttā evam vayāsi, khippam eva bho devāņuppiyā aj,a savisesam

bāhiriyam uvathānasālam gandho-daya-ittam suiyasammajjiovalittam sugandha-varapandavathapanga pe pphovayā akaliyam kālāgurupavarakundurukka urukka dajjhanta dhūv maghamaghantagandhuddu ūyā bhirāmam sugandhavaragadhiyam gandhavattiblu yam kareha kāraveha karittā ya kārāvettā ya sīhāsanam rayāveha.

FIFTH PAPER

Examiner-Mr. BASANTAKUMAR CHATTERJEE, M.A.

HISTORICAL AND COMPARATIVE GRAMMAR OF MODERN INDJ-ARYAN
(BENG.,LI)

The questions are of equal value.

Answer ANY BIX questions

- 1. Give a tabular representation of the origin of Bengali from Old Indo-Aryan, and explain the relation of all the Magadhan and Ardha-Magadhan Vernaculars of modern times.
 - 2. Write notes on any four of the following:-
- (1) Satem languages, (2 A Koine' dielect, (3) Theto-Burman influence on Bengali, (4) Dialects in the Inscriptions of Asoka, (5) Existence of pre Aryan culture in ancient Bengal, (6) Vijay-stha and the Aryan colonisation of eylon, (7) Avahattha, (8) Sarvānanda s Tikā-sarvasva, (9) Crepar Raxtrer Orthblad
 - 3. Explain and illustrate any four of the following :-

Spirantisation, Diphthongisation, Dissimilation, Compensatory lengthening, Euphonic glides, Spontaneous Nasalisation, Anaptyxis, Vowel Harmony, Metathesis, Deaspiration, Prothesis, Labialisation.

- 4. Attempt a short history of the accent-system in Bengali, and give examples of the loss of syllables due to absence of the accent.
- 5. State and illustate Fortuna ov's Law, and explain with suitable illustrations that Eastern (Magadhan) cerebralisation is a continuation of Fortunatov's Law.
- 6. Give a short account of the influence of Portuguese on Bengali. Name six Bengali words of Portuguese origin, and discuss the phonology of each of them.
- 7 Trace back the source-form of one of the following New Bengali sentences from Indo-European, giving the probable phonetic forms of the same in (1) Old Bengali, (2) Middle Indo-Aryan (Prakrit), (3) Old Indo-Aryan (Vedic), and (4) Indo-European:

গোরালা গাই ঘোর। সে ঘৌডে এল।

8. Explain the following statement with a few apt examples :-

Benrali may be said to have started de novo in its declension of the noun having but very little of the declinational system of Old Indo-Aryan; and the little that it has preserved consists of a few inflections which have been generalised.'

Derive any eight of the following words and forms:-

সাকো, সোতা, পারত-পক্ষে, উঠ ভি ববেস, পোরাতী, এবো, পাঁকটি, বাছু ই, বেলো, বেলুখো, বোল, আকটা, দৃল্টা, সোহাগিনী, দিল্লীপনা, পর্যন্ত, বাঁধুলি, আক্সে (narapet on a terrar e), পাতস, জল-সই, বোগর, কানাসো না, বেটেনা, হাবাতে, ন'-হন্দু, বে-হেড, বিধাউছি, নাবালিকা, কহতব্য, বালীকর, বাগিচা, পিকদানা, সমক্ষার, and সাবালক।

SIXTH PAPER

Examiner-Mr. P. C. Ghosh, M.A.

The questions are of equal value

Write essays on two of the following subjects:-

The origin of writing.

(b) Foreign element in Bengali vocabulary.
(c) Application of the Roman Alphabet to the languages of India.
(d) The province and methods of Semantics. (Illustrate your answer from English and Bengali.

(e) 'The sentence not the word, is the unit of language.'

ALTERNATIVE (A): ARYAN AND INDO-EUROPEAN PHILOLOGY

SEVENTH PAPER

FIRST HALF

(Indo-Iranian Philology: Grammar and Philology)

Examiner—Pandit Vidhusekhar Sastri

The questions are of equal value.

Attempt only THRER questions

- 1. Translate the following passage as literally as possible into Sanskrit :-
 - . at hvo vanhaus vahyo na sibi-jamyat. yo na orozūs aavanen padā sisoit, alıya anheus astvato mananhas-ca. haiθyənn ā-stīs yə g ā saētī Ahurō : arədro owava- huxəniusə apouto Mazda.
- 2, (i) In the passage quoted above account for the case in vanhous.
- Derive vahyo, giving its Sauskrit equivalent, and write another word with the same suffix.
- What are the cases in nā and paso and how will you account for (iii) them?
- (iv) Derive aibi-jamyāt and sīsoit, and conjugate their roots in the present tense and subjunctive mood, 3rd person singular.
 - (v) What are the forms of ahyā and saētī in YAv?
 - (vi) Write the alternative forms, if any, of yong and huzortuse-
- 8. (i) Is hiatus allowed in Avesta? Is it also found in the Vedic texts? If so, give a few examples from both f them.
- (ii) Derive ayapta (as in ahmai jasat ayoptom), and explain y in the word showing its occurrence, if any, in Sanskrit and Prakrit.
- (iii) Write the meanings of the following; gava, zasta, tas, and wher, and show the difference, if any with regard to their use, Write also the Sanskrit equivalents of the last three words. What is the Persian word for zasta?
 - (iv) Write a philological note on gadavara.

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- 4. (i) What do you understand by Epenthesis, Prothesis, and Anaptyxis? Give some example from Avestan.
- (ii) Do they occur in Sanskrit, Prakrit or Indo-Aryan vernaculars? If so, write some such words.
 - (1**ii**) Write the rule of Prothesis.
- 5. (i) Explain the following words philologically through the light of Avesta; nirjhara mahyam (personal pronoun, dative, singular), prathama, edhi (Vas, imperative, 3rd person, ingular), jahi (Vhan, in perative, 3rd person, singular), and ettha (Prakrit).
 - Write a note on the development of s in Avesta
- (iii) Conjugate Vkar in preterie, imperative, optative, and subjunctive, 3rd person, singular, and write it infinitive, and present and past participles.

SECOND HALF

(Indo-Iranian Philology: Elements of Avesta and Old Persian)

Examiner—Prof. I. J. S. Taraporewalla, B.A., Ph.D.

The figures in the margin indicate full marks.

Answer Question 1 and ANY TWO of the rest.

- 1. Translate, giving explanatory notes where necessary:-
 - (a) Ha mo tā s-cit yā sainīno anhaire dareyem aytyo haiθim rāδθin-ca baxsaiti mosu jaiδyamno huxratus.
 - (b) abda ca ioa Yima anuhe astvaite ada at vat ida p seus anun avehe padem vaenaite.
- (c) yo anavanhabdemno zaenanta niehautvaiti Mazda dāmān võ vispəm ahum astvantəm ərəbwa anaibia nipāiti pisca hu fia mõ daitim.

Render one of the above passages into Sanskrit, giving cognate equivalents as far as practicable.

- 2. Translate, and explain with reference to the context, any five of 15 the following;

 - (a) pairi-sē usi vərənuidi.
 (b) yōı asāi vaonarə.
 (c) nōit astō noit u tānahē cinmānī.
 - (d) yō raosta $\chi s_4 \theta r \tilde{o}$ -kāmya.

 - (e) yenhe frafravani mano, (f) Ahurāi Mazdāi vīspā vohu cinahmi.
- 3. Explain any five of the following phrases, showing the connection 15 in which they cour in the text ;-
- (a) Pāyū Oworostāra; (b) viso sūraya Oraetaono; (c) haca Gayat-Mareduat a Sansvantat; (d) naire-mans Keresaspo; (e) katayo nasko-frasanho; (f) yāvaranā Frasaostra-Jāmāspā.
- 4. Write full grammatical notes on tas cit, anhaire and ayrvo in Question 1 (a), vaenaite in Question 1 (b), and on anavanhabdemno in Question 1 (c).
- 5. Point out the peculiarities of, and the differences between, the 15 Gathic and the later Avestan dialect.
- 6. 'The Haoma ceremony is only the Soma worship very much reformed and refined.' Criticize this statement, and show in what different senses the word Haoma is used in the Avesta.

EIGHTH PAPER

(INDO-EUROPEAN PHILOLOGY, WITH ELEMENTS OF GREEK)

Examiner-Prof. S. K. Chatterji, M.A., D.Lit.

PART I: INDO-EUROPEAN PHILOLOGY: 50 marks.

(Answer THRRE questions only in this part. The questions are of equal value in this half.)

- 1. Discuss the treatment of the Indo European velars (both simple and labialised) as well as 'palatals' in Aryan and Old Indo-Aryan and in Greek.
 - 2. Write a note on Indo-European Aulaut.
 - 3. Discuss the gender-system of Indo-European.
 - 4. Decline two of the following Indo-European nouns :-

wayor, poter, *ajous, *bheronts, * perikica . .

5. Write a note either on the thematic conjugations of Indo-European, or on the sorist in Indo-European.

PART II: ELEMENTS OF GREEK (HOMERIC GREEK: ILIAD, BOOK I): 50 marks.

(Answer Question 1 which is compulsory and ANY TWO others from among the rest)

- 1. Render into English any three of the following passages, with 30 grammatical and other notes on the words underlined:—
 - (a) τον δ ἀπαμειβόμενος προσέφη πόδας ωκὺς ᾿Αχιλλεύς: " Θαρσήσας μάλα, εἰπὲ θεοπρόπιον ότι οἰσθα. οὐ μὰ γὰρ ᾿Απόλλωνα διίφιλον, ῷ τε σύ, Κάλχαν, εὐχόμενος Δαναοῖσι θεοπροπίας ἀναφαίνεις,

- ού τις έμευ ζωντος και έπι χθονι δερκομένοιο σοι κοίλης παρά νηυσι βαρείας χειρας έποίσει συμπάντων Δαναών, οὐδ' ήν 'Αγαμέμνονα είπης, δς νῦν πολλὸν ἄριστος 'Αχαιών εὔχεται είναι '
- (b) " ηλθον εγώ παύσουσα το σον μένος, αι κε πίθηαι, ουρανόθεν : πρό δε μ' ηκε θεά λευκώλενος "Ηρη, αμφω όμως θυμώ φιλέουσα τε κηδομένη τε. άλλ' άγε, ληγ' εριδος, μη δε ξίφος ελκεο χειρι: άλλ' η τοι επεσιν μεν ονείδισον, ώς εσεταί περ. ώδε γαρ εξερέω, το δε και τετελεσμένον εσται: και ποτέ τοι τρις τόσσα παρέσσεται άγλαα δώρα ύβριος είνεκα της δε: συ δ' ισχεο πείθεο δ' ημιν."
- (c) ὧς εἰπων προίει, κρατερον δ' ἐπὶ μῦθον ἔτελλεν.
 τὰ δ' ἄεκοντε βάτην παρὰ θίν' ἀλος ἀτρυγετοιο,
 Μυρμιδόνων δ' ἐπι τε κλισίας, καὶ νῆας ἰκέσθην.
 τὸν δ' ἑυρον παρά τε κλισίη καὶ νή μελαίνη
 ἤμενον: οὐδ' ἄρα τώ γε ἰδὼν γήθησεν 'Αχιλλεύς.
 τὰ μεν ταρβήσαντε καὶ αίδομένω βασιλῆα
 στήτην, οὐδέ τί μιν προσεφώνεον οὐδ' ἐρέοντο:
 αὐταρ ὁ ἔγνω ἡσιν ἐνὶ φρεσὶ φώνησέν τε.
- (d) αὐτὰρ ἐπεὶ παύσαντο πόνου τετύκοντο τε δαῖτα, δαίνυντ' οὐδέ τι θυμὸς εδεύετο δαιτος εἰσης. αὐτὰρ ἐπεὶ πόσιος καὶ ἐδητύος ἐξ ἐρον ἔντο, κοῦροι μὲν κρητήρας ἐπεστέψαντο ποτοῖο, νώμησαν δ' ἄρα πᾶσιν ἐπαρξάμενοι δεπάεσσιν: οἴ δε πανημέριοι μολπή θεὸν ἰλάσκοντο καλὸν ἀείδοντες παιήονα κοῦροι 'Αχαιῶν, μέλποντες ἐκάεργον. ο̂ δε φρένα τέρπετ' ἀκούων.
- (e) " Ζεῦ πάτερ, εἴ ποτε δή σε μετ' ἀθανάτοισιν ὀνησα.

 ὴ ἐπει ἡ ἔργῳ, τὸ δέ μοι κρήηνον ἐέλδωρ:

 τίμησόν μοι ὑιὸν, ὃς ἀκυμορώτατος ἀλλων
 ἔπλετ': ἀτάρ μιν νῦν γε ἄναξ ἀνδρῶν 'Αγαμἔμνων,

 ἠτίμησεν: ἐλὼν γὰρ ἔχει γέρας, αὐτὸς ἀπούρας.

 ἀλλὰ σύ πέρ μιν τίσον 'Ολύμπιε μητίετα Ζεῦ:

 τόφρα δ'ἐπὶ Τρώεσσι τίθει κράτος, ὄφρ' ἄν 'Αχαιοὶ
 ὑιὸν ἐμὸν τίσωσιν ὀφέλλωσίν τε ἐ τιμῆ."
- 2. Write notes on any five of the following words, giving 10 Old Indo-Aryan (Vedic or Sanskrit) equivalents:—
- βή, αργυρεσιο, βισίο, ἄειδε, εἰπὼν, προσέφη, ἔζετο, οἰσθα, ζώντος, δερκομένοιο, ἐκατόμβη, κρείων, ποθι, ήσθαι, εἰσι, ἔππους, εἴδης, ἀέκουσα, γυνή, ἐρρέε.

10

8. Give the principal parts of four of the following verbs-	10
λύω, δείδω, πείθω, εἵκω, καλέω, ἡγέομαι, τίκτω, ἰλάσκομαι, ἐρχόμαι, ἐλάω, ἔπω, φεύγω, ἀμείβω, τῖμάω, ὀλλύμι, φαίνω, πίπτω, στείρω, πειράω, γηθέω, κρίνω	
4. Decline the Greek pronouns for the first and second persons	10
5. Give a short account of the Greek inleads, classifying them genealogically, and indicate the place of the Homeric dialect among the various forms of ancient Greek.	10
6. Discuss the historical background of Homer.	10
7. Institute a comparison between the world of Hemer and the world of the Rigveda.	10

HISTORY

FIRST PAPER

The questions are of equal value.

FIRST HALF

Examiner-MR. R. B. RAMSBOTHAM, M.A., B.LITT., M.B.E.

Not more than THREE questions to be attempted.

1. 'When, one day in January, 1822, Mr. Peel walked into the Home Office, a fresh wind blew through the dim corridors, a wind that was the breath of the opening nineteenth century.

Explain the meaning of this description.

Give a brief account of the Colonial development of the British Empire between 1815 and 1865.

3. 'During his life the condition of England may be described as one

of political repose.'

Is this an accurate description of Lord Palmerston s political career?

How far is Lord Melbourne's character reflected in the policy followed

during his prime-ministership?

5. Contrast the History of Scotland and Ireland during the first half of the nineteenth century.

SECOND HALF

Examiner-Dr. A. P. DASGUPTA, M.A., Ph.D.

Answer any THREE.

 What do you know of the Tory revival under Disraeli?
 Examine the part played by Disraeli in the Eastern Crisis of 1875-78.

'The steps of the second Gladstone government were, indeed, doomed from first to last to be dogged by a succession of untoward and intractable situations—some of them wholly unforeseeable; others unexpected in the shape which they actually assumed; and all combining to bring about the indefinite postponement of most of the hopes with which its advent had been hailed.' (Asquith.) Expand.

4. Write a short essay on Imperialism as a factor in British history in the last quarter of the 19th century.

5. Discuss the part played by Queen Victoria as a constitutional sovereign.

SECOND PAPER

The questions are of equal value.

Not more than THREE questions to be attempted from each half.

FIRST HALF

Examiner-Dr. Hemchandra Raychaudhuri, M.A., Ph.D.

1. Sketch the history of the Saisunaga dynasty, explaining clearly the different views about the succession and chronology of the kings.

2. Give an account of the Parthian supremacy in India, noticing in detail at least one Indo-Parthian king. (Refer to your sources of information.)

3. Examine the historical data supplied by the inscriptions of Gautamtputra and Pulumayi and discuss their chronology.

4. Explain, with the aid of a sketch map, the political history of India

in the sixth century A.D. 5. Write a note on the life and times of Pulakesin II, indicating

your sources of information. 6. Describe the reigns of Dhruva and Govinda III, with special re-

ference to their military expeditions.
7. The Buddhist Constantine was all the greater than his Christian

prototype, because he did his very best to enforce in his own personal life as well as in his empire the tenets of his creed.' Explain.

SECOND HALF

Examiner—Dr. Rameschandra Majumdar, M.A., Ph.D.

- 8. Review the historical importance of the Periplus of the Erythraean Sea.
- 9. What do you know of the Dravidians? Have they left any traces of their language and culture in Northern India?
- 10. Give a general review of the system of government as presented in Kautilva's Arthasastra, with special and detailed reference to the foreign policy and methods of dealing with seditious persons.

 11. Describe the monuments left by Asoka and indicate their position with the aid of a sketch map.

12. Examine the nature and value of the evidence contained in the works of Greek and Latin authors which bears on social and political conditions in India during the Maurya period.

13. Discuss the theory of Manu about the origin of the mixed and de-

graded castes. 14. Write a note on village and municipal administration in Ancient India.

THIRD PAPER

The questions are of equal value.

FIRST HALF

Examiner-Mr. Indubeushan Banerjee, M.A.

Answer Question 1 and any TWO of the rest.

1. Comment on any three of the following:-

(a) 'I am one void of rebell on against his lord: Sint is content under my rule, Herakleopolis praiseth God for me, the Nomes of the South and the Lauds of the North say, "Lo! whatsoever the prince commandeth, that is the command of Horus (the king)."

(b) 'In the 29th year of Schetepabra, living for ever, they came

- to overthrow Wawat.'

 (c) 'At length they made one of themselves king, whose name was Salatis, and he lived at Memphis and made both Upper and Lower Egypt pay tribute, and left garrisons in places that were most suitable for them. And he made the eastern part specially strong, as he foresaw that the Assyrians, who had then the greatest power, would covet their kingdom and invade them.
- 'One besieged Sharuhen for three years and his majesty took (d) it. Then I took captive there two women and one hand. One gave to me the gold of bravery besides giving me the captives for slaves.

(e) 'Amon gave to me all the allied countries of Zahi shut up in one city. I snared them in one city, I built around them with a rampart of thick wall.'

(f) 'Verily, thy father did not march forth, nor inspect the lands of the vassal-princes. And when thou ascendedst the throne of thy father's house. Abdashirta's sons took the king's land for themselves. Creatures of the king of Mitanni are they, and of the king of Babylon, and of the king of the Hitties.'

2. Give a clear and concise account of the political organisation of

Egypt in the days of the Pyramid Builders. Trace the course of events that led to its dissolution after the fa" of the VIth dynasty.

3. On what lines would you proceed in order to settle the chronology of the XIIth dynasty? Account for the wide divergence of views among Egyptologists.

'In no element of their life are there clearer evidences of change and development than in the religion of the Middle Kingdom Egyptians.'

Elucidate.

5. What light do the 'Tell-el-Amarna Letters' throw on the causes

of the collapse of Egypt's first empire in Asia?

6. Write a short history of the restoration of the Egyptian empire by Seti I and Ramses II. Contrast the restored empire with that of Thutmose III and his successors.

SECOND HALF

Examiner-Mr. P. N. Banerjee, M.A., B.L., Bar.-at-Law

N.B.—Candidates will answer three questions and three questions only from this half.

1. Comment on the following:-

(a) 'Amraphel, King of Shiner, Arioch, King of Ellasar, Chedorlacmer, King of Elam, Tidal, King of Gayyim, subdued Meet and Hauran.'

(b) 'Awake, awake, Deborah:

Awake, awake, utter a song;

Arise. Barak, and lead thy captors captive, thou son of Abinoam.

The Kings came and fought; Then fought the Kings of Canaan

In Taanach by the waters of Megiddo'

III, Amenhotep III, and Akhenatin.' Discuss.

3. What date would you assign to Hammurabi, and why?

4. Give an account of the position of women in Babylonia from your study of the code of Khammurabi. How did they compare with their sisters in Egypt?

Write a connected history of either Urartu or Elam.

- 'The real value of the Prophets lies in the significance of their utterances for contemporary needs; they were forthtellers rather than foretellers.' Discuss.
 - 7. Write notes on any four of the following:-
 - (a) The quest of eternal life in the poems of Gilgamish.

(b) The black obelisk of Nimrod.

(c) The 'Synchronus history.'

(d) The rock inscription of Behistun.

- (e) The allegory, if any, behind the descent of Ishter into Hades.
- (f) Berossos.

FOURTH PAPER

The questions are of equal value.

FIRST HALF

Examiner-Mr. K. Zachariah, M.A.

Answer Question 1 and any Two others

- 1. Comment on any four of the following passages:-
- (a) If any one demand justice before a 'scirman' or other judge and cannot obtain it, and a man (the defendant) will not give him 'wedd' let him make 'bot' with XXX shillings, and within VII nights do him justice. (Laws of Inc.)

(b) And let every man so order that he have a 'borh'; and let the

'borh' then bring and hold him to every justice.

(Edgar, Secular Ordinance.)

- (c) These are the rights that the king has over all men in Wessex: that is, mundbryce and hamsoen, forsteal and fyrdwite, unless he will honour any man more highly. (Canute, Secular Dooms.)
- (d) The law of King Edward I give to you again with those changes with which my father changed it by the counsel of his barons. (Charter of Henry I.)

(e) If controversy shall arise between laymen, or clergy and laymen, or clergy, regarding advowson and presentation to churches, let it be treated or concluded in the court of the lord the king. (Constitutions of Clarendon.)

or concluded in the court of the lord the king. (Constitutions of Clarendon.)

(f) The recognition of novel disseisin, mort d'ancestor, and darrein

presentment shall be held only in their own countries. (Magna Carta.)

(g) The writ which is called practine shall not be given for the future to any one concerning any tenement by which a free man can lose his

court. (Magna Carta.)

- (h) None but the king from henceforth shall hold plea in his Court of a false judgment given in the Court of his tenants; because such pleas do especially belong to the king's crown and dignity. (Provisions of Westminster.)
- (i) For no business from henceforth we shall take of our realm such manner of aids, tasks, nor prises, but by the common consent of all the realm, and for the common profit thereof, saving the ancient aids and prises due and accustomed. (Confirmatio Cartarum, 1297.)

(j) We do ordain that the bing henceforth shall not go out his realm, nor undertake against any one deed of war, without the common assent of

his baronage, and that in parliament. (Ordinances of 1311.)

2. Sketch the history and explain the characteristics of tenure by knight service in England.

3. How far was an official career open to men of talents but of humble

birth in the middle ages?

- 4. To what extent was taxation a reason for the summons of knights and burgesses to parliament in the 13th century? Trace the steps by which Parliament acquired control over taxation, up to 1485.
- 5. 'The control of the Council was the chief object of the struggle between king and barons.' Illustrate this statement from the 13th and 14th centures.
- 6. Were any valuable contributions to the growth of the constitution made in the middle ages as the result of rebellions or threats of rebellion?
- 7. Trace the history of eccles astical courts and spiritual jurisdiction up to 1600.

SECOND HALF

Examiner-Mr. Tripurari Chakrabarti, M.A.

Answer Question 1 and any Two others.

- 1. Comment on any four of the following passages :-
- (a) That it was a most rerilous precedent that, after two knights of a county were duly elected, any new writ should issue out for a second election without order of the House of Commons itself. (Norfolk election, 1586.)
- (b) You, Mr. Speaker, should perform the charge her Majesty gave you at the beginning of this narliament not to receive bills of this nature. (Speech of Cecil, Nov. 23, 1601.)
- (c) This seat, which God, by my birthright and lineal descent, had, in the fulness of time, provided for me.

(Speech of James I, March 19, 1604.)

- (d) The king commits and often shows no cause; for it is sometimes generally, 'per speciale mandatum domini regis.' (Attorney-General Heath's Argument in the case of the Five Knights, Nov., 1627.)
- (e) The king of mere right ought to have, and the people of mere day are bound to yield unto the king, sumply for the defence of the kingdom.

(Sir Robert Berkeley in the Ship Money Case, 1638.)

(f) Expressly contrary to the said Statute and other good laws of this our kingdom, under colour and pretence of an Ordinance of Parliament......the trained bands and militia of this kingdom have been lately,

and are intended to be put in arms. (King's Proclamation, May 27, 1642.)
(g) That no person who has an office or place of profit under the king or receives a pension from the Crown shall be capable of serving as a

member of the House of Commons. (Act of Settlement, 1701.)
(h) A motion being made and the question put, that Henry Lawes Luttrell, Esquire, is duly elected a knight of the shire to serve in this present Parliament for the country of Middlesex. (Commons' Journals, May 8th. 1769.)

(i) That, on every such trial, the jury sworn to try the issue may give a general verdict of guilty or not guilty upon the whole matter put in

issue upon such indictment or information. (Libel Act, 1792.)

- (j) That the right of granting Aids and Supplies to the Crown is in the Commons alone, as an essential part of their Constitution. (Resolution of the Commons, 1860.)
- 2. 'The prerogatives of princes may easily and do daily grow: the privileges of the subject are most part at an everlasting stand.' (Apology of the House of Commons, 1604.)

Examine this reflection on the Government of the Tudors.

3. What is the constitutional importance of the office of Justice of the Peace under Elizabeth and the first two Stuarts?

4. What were the rival theories of Sovereignty, which found expres-

sion in the reigns of James I and Charles I?

5. Sketch the development, and the political ideas, of the Party from the Restoration to the death of Queen Anne. Tory

6. Discuss the part played by the Judiciary of the 18th century in

maintaining popular liberties.

7. 'There may be at any moment two doctrines of privilege, the one held by the Courts, the other by either House, the one to be found in the Law Reports, the other in Hansard.'

Explain and illuterate this difficulty under the Victorian Parlia-

ments.

8. Describe the main features of the development of English Local Government from the beginning of the 19th century to the passing of the Local Government Act of 1929.

FIFTH PAPER

FIRST HALF

Examiner—Mr. Satischandra Chakrabarti, M.A.

Only THREE questions may be attempted from this half.

1. What are the 'sources' of International Law? Discuss the influence of Roman Law on the development of International Law.

2. Give a lucid exposition of the Articles of the Covenant of the League of Nations dealing with the prevention of war. War is recognised and adopted as a police measure by the Covenant. Discuss.

3. Write a historical note on the principle of non-extradition of poli-

tical criminals. Carefully explain the term 'political crime'.

4. When and to what extent can a State exercise criminal invisdiction over foreigners? Fully discuss this question by reference to illustrative.

- 5. State and annotate any three of the following cases :-
 - (1) The Exchange (1810).
 - (2) The Indian Chief (1800).

(3) The Kim (1916).
(4) The Appam (1916).
(5) The Behring Sea Arbitration (1893).

(6) The Husscar (1877).

SECOND HALF

Examiner—Prof. Arthur Brown, M.A., LI.B.

Answer any THREE.

1. Write short notes on the international status of any three of the following: (a) Iraq, (b) the Panama Canal, (c) the Saar Valley, (d) Iceland.

2. Expound the status and privileges of Red Cross societies in land and naval war and discuss the manner in which possible abuse is provided against.

Write a historical note on the theory and practice of neutrality.

Write short notes on any three of the following: (a) spies, (b) prisoners of war, (c) war treason, (d) the Declaration of Par's (1856), (e) the Declaration of St. Petersburg (1868).

5. Sketch the history of the doctrine of continuous voyage and discuss

the extension given to this doctrine during the world war.

(HISTORY OF BENGAL)

SIXTH PAPER

The questions are of equal value.

FIRST HALF

Examiner—Mr. Indubhushan Banerjee, M.A.

Answer any THREE of the questions.

1. Sketch the reign of Nawab Mir Kassim, indicating clearly the causes of his downfall.

2. What were the abuses in the service of the East India Company in

Bengal and how did Clive reform them in 1765?

3. Comment on the trial of Maharaja Nundcoomar, with special reference to the powers and jurisdiction of the Supreme Court.

4. Estimate the part played by Warren Hastings in the affairs of

Cheyt Singh and the Begum of Oudh.

5. Write a critical review of the Indian career of Philip Francis. Car you trace any permanent result of his activities?

SECOND HALF

Examiner-Dr. Subodhchandra Mukherjee, M.A., D.Litt. THREE questions to be attempted.

1. On what grounds did Clive justify his acceptance of the Dewani? To what extent were his expectations fulfilled?

2. Are you prepared to say that the Frontier policy of Warren Hastings was a natural development from that of Lord Clive? Give reasons for your answer.

3. How did Warren Hastings give effect to the decision of the Directors 'to stand forth as Dewan'? What were the characteristic defects of

his scheme?

4. Indicate the successive steps that led to the separation of the judi-

cial from the revenue administration.

5. 'I gave you all, and you have rewarded me with confiscation, dis-grace, and a life of impeachment.' (Warren Hastings.)

Discuss the validity of the statement.

SEVENTH PAPER

The questions are of equal value.

Six questions to be attempted, THREE from each half.

FIRST HALF

Examiner-Mr. JITENDRANATH BANERJEE, M.A.

1. What was meant by the Company's 'Investment'? Point out the distinction between the gomastah system and dadni merchants. was found advantageous by experiment, and why?

2. 'Since the accession of the Company to the Dewanee the condition of the people of this country has been werse than it was before.' (Fecher.)

Elucidate the statement with reference to the economic condition of Bengal after 1765.

3. Describe the nature of the currency difficulties that afflicted Bengal during your period. How did Cornwallis finally solve them?

4. On what grounds does Verelst justify Clive's formation of the salt society? Give a brief account of the organization and the method of working of this society.

5. Draw a picture of life in Calcutta in the days of Warren Hastings.

SECOND HALF

Examiner-Dr. A. P. DASGUPTA, M.A., PH.D.

6. 'From 1757 to 1765 the troubles of Bengal had been due to trade abuses.' Amplify.

7. Can you criticise the measures adopted for collection of land reve-

nue in Bengal by Warren Hastings?

8. Give the gist of Shore's ideas relating to land revenue administration, showing where he differed from Grant and Cornwallis.

9. Give your opinion on the Permanent Settlement of Bengal.

10. Give an account of the sources of information available for the study of the social and economic condition of Bengal during the second balf of the 18th century.

(RAJPUTS)

SIXTH PAPER

Examiner-Dr. HEMCHANDRA RAY, M.A., Ph.D.

The questions are of equal value

FIRST HALF

Attempt THREE questions only.

1. Give an account of the struggles of the Chaulukyas (Solankis) of Anahilapātaka with Muslims.

2. Briefly review the life and administration of the Chaulukya Kumā-

rapāla, with special reference to his epigraphic records.

3. Write a short note on the rise and origin of the Chahamanas of Sākambharī, with special reference to the reign and epigraphic records of Vigraharāja IV (c. 1153-64).

4. 'The power of the Paramaras of Lata and Malava reached its zenith during the reigns of Vākpati Munia (c. 974-95) and Bhoja (c. 1010-55).

Discuss this statement.

5. Write a note on the Tomaras of Delhi or the Kachchhapaghātas of Gwalior.

SECOND HALF

Examiner—DR. HEMCHANDRA RAY, M.A., Ph.D.

Attempt THREE questions only.

1. Write a short account of the reigns of the Chandratreya (Chandella) princes Ganda and Vidyadhara.

2. The Gurjara-Pratihāra king Rājyapāla is 'the chief of all princes

of India.' Discuss this statement.

3. Give an account of the Gahadavala (Gaharwar) ruler Govindachandra (1114-55), with special reference to contemporary records.

4. Briefly review the career of the Haihaya (Kalacuri) king Lakshmi

Karne of Tripuri.

5. Give a short account of the various Rashtrakūta (Rathor) dynasties of Northern India during the period c. 575-1310 A.D.

SEVENTH PAPER

The questions are of equal value.

Attempt THREE questions from BACH half

FIRST HALF

Examiner-Mr. Subimalchandra Datta, M.A.

1. 'The general thesis that some of the nobler Rajputs septs are desconded from Gurjjaras or other foreigners, while others are closely connected with the autochthonous races, may be regarded as definitely proved." Carefully examine the above statement.

2. What are tre principal sources for the reign of Raval Jaitrasimha of Mevad? What account can you build upon them?

3. What, in your opinion, are the causes of Alauddin Khilji's attack upon Chitor? What value do you attach to the Padimini episode?

4. Give a critical account of the activities of Chunda, son of Rana Lakha. Do you agree with the Mevad version of his life-story?

5. Write an account of the reign of Rana Vikramadit. What is its

constitutional importance?

SECOND HALF

Examiner-RAI SAHEB HARBILAS SARDA

1. Discuss, stating your authorities, whether the Rathors of Rajputana and Central Ind's are descendants of the Gaharwar Jayachand of Kanauj.

2. Discuss how far the Rathors contributed to the consolidation of the

Mognul empire in the days of Akbar and Jahangir.

3. Describe, in detail, the political career of Maharaja Jaswant Singh of Marwar during the reign of Shah Jahan and Aurangzeb.

4. Give a brief account of the life and work of Maharaja Ajitsingh of

Marwar.

5. Describe and discuss the comparative value of the sources of the history of the Rathors.

(HISTORY OF THE MARATHAS)

SIXTH PAPER

The questions are of equal value

Only THREE questions from EACH half need be answered.

FIRST HAIR

Examiner-Dr. Surendranath Sen, M.A., B.Litt., Ph.D.

 What were the main features in the situation of Maharastra which contributed to the rise of Shivaji?

2. What influence did Ramdas exercise in the effort of Sh vaji to estab-

lish the Maratha Raj?

3. Mention the various original sources of Shivaji's life and discuss their relative value.

4. Discuss the attitude of Shivaj towards Islam.

5. Describe the military organization of Shivaji, with special reference to his forts, mentioning also some of the stirring incidents of his life in that connection.

SECOND HALF

Examiner-MR. G. S. SARDESAI, B.A.

6. Write an account of Shahji and print out how far Shivaji was indebted to him for the success he achieved.

7. Describe the ceremony of Shivaji's coronation, and shew what significance Shivaji attached to it in the constitution which he formed.

8. Write a short sketch of the life of Sambhaji and shew why he failed against Aurangzeb.

9. Describe the character and achievements of Rajaram and discuss the results of his policy on the future of the Maratha Kingdom.

10. Point out the value of the services rendered by Ramchandrapant Amatya for the national cause.

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner—Dr. H. C. ROYCHAUDHURI, M.A., PH.D.

Not more than THREE questions to be attempted.

1. Describe the steps taken by the first three Peshwas to restore the

authority of the central Maratha government in the Konkan.

The Sea has always been a more or less strange element to the Marethas.' Cr.tically examine this statement, with special reference to the career of Kanhoji Angria.

3. Discuss the relations of the Nizam with the Marathas during the

period 1727 to 1761 A.D.

4. Point out the lessons of the battles of Panipat (1761) and Kharda (1795). Compare Sadāsiva B. āo and Nānā Farnavīs as statesmen and organisers.

5. Write a note on the development of the Maratha power in the

Central Provinces in the latter half of the eighteenth century.

6. Give a brief account of village autonomy in Mahārāshtra in the time of the Peshwas.

SECOND HALF

Examiner-Mr. Tripurari Chakrabarti, M.A.

Answer THREE questions.

1. How do you explain the failure of the Marathas to conquer Bengal in the 18th century.

2. Sketch briefly the history of the struggle between the Bhonslas

and the Peshwas for supremacy in the Maratha Empire.

3. Give a general account of the Maratha policy towards the Gangetic powers in the latter half of the 18th century.

4. Examine the conduct and policy of Raghunath Rao in the War of

the Maratha Succession.5. Discuss Sindhias' military policy and its effects.

6. Write a short essay on revenue administration under the Peshwas.

(HISTORY OF THE SIKES)

SIXTH PAPER

The questions are of equal value.

Six questions to be attempted, three from each half

FIRST HALF

Examiner-Mr. Indubhushan Banerjee, M.A.

1. 'Love and devot'on enlighten the mind.' How far did the Bhakti movement produce a general awakening in the country and what part was played by Sikhism in it?

2. Write a note on the Holy Granth and estimate its importance as a

source-book of Sikh history

- 3. 'We are neither Hindus nor Mussalmans.' (Guru Arjan.) How far was this idea developed in the history of the Sikhs and what historical causes prevented it from being put to the practice in full?
 - 4. Discuss critically any three of the following:-
 - (a) Guru Nanak's visit to Baghdad and Mecca.
 - (b) The invention of the Gurumukhi Alphabet.

(c) Guru Arjan's help to Prince Khusro.

- (d) Conversion of Hill chiefs by Guru Amar Das and Guru Arjan.
- (e) The imprisonment of Guru Hargovind.
- 5. Examine fully the causes that led to the transition to militarism under Guru Hargovind. To what extent vas it determined by previous developments in Sikhism?

SECOND HALF

Examiner-MR. TEJA SINGH, M.A.

6. Trace the history of the gradual weakening of Sikh solidarity after the death of Guru Hargovind. How were the difficulties met by Guru Govind Singh?

7. Give an account of Guru Govind Singh's quarrels with the Hill Rajas during the pre-Khalsa period. To what extent would you rely on the

Gurn's own descriptions as given in the Vicitra Natak?

8. Write a critical comment on the alleged worship of the Goddess Durga by Guru Govind Singh.

9. 'Guru Govind Singh made nationalism a religion.' (Narang.) Dis-

cuss and illustrate.

10. 'The true Khalsa under Banda preferred to maintain their religious principles at the cost of immediate political ascendancy, which would have come 50 years earlier than it actually did if they had only been a little more accommodating in their religious spirit.' Discuss.

SEVENTH PAPER

The questions are of equal value.

Six questions to be attempted, THREB from each half.

FIRST HALF

1. Discuss the relative importance of the Ahluwalia and Ramgarhia misls in the Sikh struggles of the latter half of the eighteenth century.

Examiner—Dr. Hemchandra Raychaudhuri, M.A., Ph.D.

- 2. Describe the constitution of the Sikh confederacy after the final withdrawal of Ahmad Shah Durrani.
 - 3. Write notes on any two of the following:-
 - (a) The Battle of Haidaru.
 - (b) The Sikh conquest of Multan.
 - (c) Sikh relations with Jammu and Kangra.
- 4. Write a critical note on Br.t'sh diplomacy in the Cis-Sutlei territory in 1809 and in Sind in 1831-1832. Do you find any points of resemblance?
- 5. Compare the type of Lahore official represented by Fakir Azizuddin with that represented by Dhian Singh.

SECOND HALF

Examiner-Mr. Indubhushan Banerjee, M.A.

6. Examine the state of political parties in the Punjab at the death of Ranjit Singh. Explain the part played by No Nehal Singh in the subsequent developments and estimate the repercussions of his untimely death on the fortunes of the Lahore monarchy.

7. How does the Sikh army in the early years of Maharaja Ranjit Singh compare with the Khalsa soldiery in the days of Maharaja Dalip

Singh in point of organisation and efficiency?

8. Give a brief account of Sikh-Afghan relations from 1831 to 1848.

How were matters complicated by the interference of the English?

9. How did Hard nge deal with the Punjab question after the conclusion of the First Anglo-Sikh War? What made his settlement so unsteady and short-lived?

10. Explain the Sikh strategy in the Second Anglo-Sikh War. To what causes would you attribute the final defeat of the Khalsa army?

(CHINA AND JAPAN)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Tripurari Chakrabarti, M.A.

Answer THREE questions only

- 1. What is the importance of the period 1834-1860 in Chinese history?
- 2. Write notes on the following:
- (a) The Chefoo Convention of 1876; (b) Treaty of St. Petersburg, 1881; (c) Lansing-Ishie Agreement, 1917.
- 8. Discuss the present problem of jurisdiction at the Treaty Ports in China.
- 4. Sketch the history of China's relations with Japan from the Treaty of Tien-tsin, 1871, to the Treaty of Shimonoseki, 1895.
- 5. Review the Franco-Chinese relations during the latter half of the 19th century.

SECOND HALF

Examiner—DR. P. C. BAGCHI, M.A., D.LITT.

Answer THREE questions only

1. Point out the importance of the Yang-tse valley in the political and economic history of China in the 20th century.

2. Discuss the influence of sea power upon Chinese history in the 19th

and 20th centuries.

3. Sketch the genesis of the Boxer movement in China. What were the subsequent results of the movement?

4. Show how the Washington Conference of 1921-1922 did attempt to

solve the problem of China.

5. Describe the essential features in the history of the Chinese Revolution from 1911-1931.

SEVENTH PAPER

The questions are of equal value Attempt any THREE questions from BACH half

FIRST HALF

Examiner—Mr. NARAYANCHANDRA BANERJEE, M.A.

1. Discuss the circumstances which led to the restoration of the Imperial authority in Japan. What were the factors that contributed to the downfall of the Shogunate?

2. 'Feudalism was thus partly driven and partly lured to its own destruction:' Discuss.

3. D'scuss the attempts for the introduction of the Cabinet system in

Japan and estimate the measure of its success.

4. Discuss the position of the Emperor in the Japanese Constitution and indicate the extent of the authority actually exercised by him. Give some idea of the Emperor-worship in Japan.
5. Review the relations between Japan and Korea from 1894 to 1905.

SECOND HALF

Examiner—Dr. Rameschandra Majumdar, M.A., Ph.D.

1. Review the relations between Japan and China since the outbreak of the Great War.

2. Discuss the characteristics of industrialism in Japan and its social

and economic consequences.

- 3. Estimate the contributions of any two of the following to the evolution of modern Japan :-
 - (a) Emperor Matsuhito.
 - (b) Count Okuma.
 - (c) Prince Katsura.

4. 'In 1905 the Japanese had gained universal admiration; by 1910 they had come to be as widely disliked and distrusted, especially in the Anglo-Saxon world.

Discuss the above, and state your own views regarding the international outlook on Japan, say in 1935.

5. Write critical notes on the following:-

(a) Communism in Japan.

(b) Immigration disputes with America.

(c) Corruption in Japanese political life.

(HISTORY OF ISLAM)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. S. N. Sen, M.A., B.LITT., Ph.D.

Only THREE questions are to be attempted.

1. Explain the principles followed by the Arabian Prophet in his

dealings with non-Muslim communities.

2. Carefully explain the procedure that was followed in the election of the four Pious Caliphs. Can it be asserted that there was a regular system of election or nomination to the Caliphate?

3. Give a careful account of the character and the activities of the

Kharijites.

- 4. 'Austere, unscrupulous, clear-headed, outwardly observant of all religious duties but never permitting any human or divine ordinances to interfere with the prosecution of his plans or ambitions—such was Mu'awiyah.' (Amir Ali.) Discuss with reference to the chief events of his career.
 - 5. Comment upon the following:-

(a) 'Ye have heard the sentence of Abu Musa. He hath deposed his candidate and I too depose him. But as for my chief. Mu'awiyah, him do I confirm.' ('Amr ibn. As.)

do I confirm.' ('Amr ibn. As.)

(b) 'Beware, for verily it is as if I saw many a head before me all gory in its blood. If you reform not forthwith, there will soon be widows

and orphans enough amongst you.' (Hajjaj ab Kufa.)

(c) 'Is the House of Umeiya awake or is it slumbering still?'

(Nast ibn Seiyar.)

6. Give a brief account of the expansion of the Omayyad Empire under Welid bin Abdul Malik. Illustrate your answer with a map, if possible.

SECOND HALF

Examiner-Dr. S. N. SEN, M.A., B.LITT, Ph.D.

Attempt any THREE questions

1. Explain the importance of Mokka before and after Islam.

2. To what extent was Medina responsible for the success of Islam?

8. Write a short note on the Conquest of Persia.

4. 'High, indeed, was the status of women and unhampered was their freedom in the early days of Islam.' Discuss this statement.

5. 'No one not acquainted with Arab historical works can form any

5. 'No one not acquainted with Arab historical works can form any idea of the immense industry which they involve.' Examine this statement.

SEVENTH PAPER

The questions are of equal value

Only THREE questions from each half need be answered

FIRST HALF

Examiner-Dr. Surendranath Sen, M.A., B.Litt, Ph.D.

- 1. Institute a comparison between Sultan Mahmud of Ghazni and
- Mahammad of Ghur as soldiers and empire builders.

 2. Can Shams-ud-din Iltutmish be rightly regarded as the second

founder of Muslim power in India?

8. Give an estimate of Muhammad bin Tughluq as a man and ruler.

4. Is it fair to compare Firnz Tughluq with Akbar?

5. Write a short account of the political condition of India on the eve of Babar's invasion.

SECOND HALF

Examiner-Mr. K. D. BANERJI, M.A.

Was Babar a mere military adventurer? Give a reasoned answer.
 Give a critical estimate of Sher Shah's achievements.

- 3. Discuss some of the fundamental principles of Akbar's revenue settlement.
 - 4. Account for the failure of Mogul policy in Central Asia.
 - 5. Draw pen-pictures of any two of the following characters:-Ranah Pratap: Rani Durgavati: Chanda Sultana: Shahiahan.

(COMPARATIVE POLITICS)

SIXTH PAPER

The questions are of equal value

THREE questions only are to be answered from BAOH half.

FIRST HALF

Examiner-Dr. Upendranath Ghoshal, M.A., Ph.D.

1. 'There is one form of government which is set before us in the earliest glimpses we get of the political life of at least all the European members of the Aryan family.' (Freeman.)

Apply this dictum to the oldest political institutions of the Greeks,

the Romans, and the Germans.
2. 'As Athens realised the most perfect form of democracy of which the City-State was capable, so did Rome realise the most perfect form of oligarchy.' (Warde Fowler.) Account for this difference, and illustrate it as fully as you can from the history of the constitutions concerned.

8. Account for the decline of the City-State, and indicate the lessons

that can be drawn therefrom.

4. Distinguish Greek and Roman methods of administration of justice.

5. Examine Maine's view of the place of legislation in the ancient polity.

6. Compare the constitution of the Achsean League with the constitution of any modern federal constitution.

SECOND HALE

Examiner-Mr. Santoshkumar Chatterjee, M.A.

- 1. Analyse the leading features of the ideal States of Plato and Aristotle, and consider their implied criticism of the current types of constitution and forms of government in Ancient Greece.
- 2. Write what you know of the democratic movements in the mediæval Italian cities. In what respects do they differ from the corresponding movements in the Ancient Greek City-States?
- 8. How far in your view was the Ancient Indian kingship limited by legal and constitutional checks?
- 4. Indicate the distinctive characteristics of the Feudal Polity and explain the services rendered by it to mediæval society.
- 5. Mediæval Papacy has been described by Hobbes as the ghost of the Holy Roman Empire sitting crowned on its grave. Do you agree?
 - 6. Account for the failure of mediæval parliamentary institutions.

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner-MR. P. N. BANERJEE, M.A., B.L., BAR-ATLAW

Answer THREE questions only

1. Which form of constitution would you like to have for India, Federal or Unitary, and why?

2. How would you deal with the question of (a) minorities, (b) Indian States, in a future constitution for India?

**The land why?

2. How would you deal with the question of (a) minorities, (b) Indian States, in a future constitution for India?

3. What are the powers which the Crown in England has reserved to itself in the constitutions of (a) Canada, (b) the Irish Free States?

4. Illustrate the importance of 'conventions of the constitution' in the practical working of the constitution of the United States.

5. How far is the Soviet Constitution in Russia novel in character?6. In what ways may it be said that the growth of economic interests and organisations has adversely affected the working of modern parliamentary institutions?
7. How far has the doctrine of separation of powers been adopted in

actual practice in the constitutions of (i) England, (ii) Germany,

(iii) France?

8. 'The success of federal government is greatly favoured by, if it does not absolutely require, approximate equality in the different countries which make up a confederation. Examine the bearing of Dicey's remark with reference to the approach of the League of Nations.

SECOND HALF

Examiner-Mr. Tripurari Chakrabarti, M.A.

Answer any THREE questions

9. Compare American federalism with federalism in Canada.
10. The outstanding feature of the Swiss form of Government is that, although political parties exist, party government does not.' Explain the absence, in this and other democratic communities, of government by party.

11. 'Rigid constitutions are compatible with progress only because they are, in practice, extremely flexible.' To what extent does the experience of modern States support this observation?

12. Account for the multiplicity of parties in France.
13. What is your account of the relationship between the Quirinal and the Vatican in Italy? How has this affected (i) International politics, (ii) National politics, (iii) Local politics?

14. What are the rights of the individual in the German Constitution? 15. What do you understand by Parliamentary form of Government? How far is it true to say that parliamentary government has failed in England?

16. What provisions exist for the amendment of the constitution in

(i) England, (ii) U.S.A., (iii) Germany?

(Modern Europe)

SIXTH PAPER

The questions are of equal value

Answer any THREE questions from BACH half

FIRST HALF

Examiner-Mr. Susobhanchandra Sarkar, B.A. (Oxon.)

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1. How far was the Concert of Europe, after the Congress of Vienna." a compromise between the ideas of Castlereagh and of Alexander I?

2. Account for the predominance of Austria over Prussia, in European

politics, from 1815 to 1848.

3. Give a comparative estimate of the constitutionalist movements in Spain and Portugal, in the first half of the nineteeth century.

Was there a revolution in British foreign policy under Canning? 4. Critically examine the foreign policy of France, in the eastern part of Europe, from 1815 to 1848. How far was it consistent and successful?

5. Give a short history of Socialism before Karl Marx and account for its comparative failure.

SECOND HALF

Examiner-Mr. Y. J. TARAPOREWALLA, M.A.

Estimate the rôle of Talleyrand at the Congress of Vienna. Did it benefit France?

2. On what grounds and to what extent can the policy of Metternich be defended?

3. Why did the policy of the Duce de Decazès fail in France?

What was the influence of Chateaubriand and Lamartine on

French history?

4. 'Pius IX believed he was granting mere administrative reforms, but he found himself, to his horror, that he was in a powder magazine with a lighted candle.' Discuss this situation in the light of events in Italy on the eve of the Revolution of '48.

5. Trace the history of Poland down to 1848 and estimate its im-

portance in European history.

SEVENTH PAPER

The questions are of equal value

Answer only THREE questions from BACH half

FIRST HALF

Examiner-Mr. ARTHUR BROWN, M.A., LL.B.

1. Discuss the distribution of peoples in the Balkan Peninsula and criticise the settlement made by the Congress of Berlin in the light of subsequent history.

2. Sketch the social and political organisation of the Russian Empire at the death of Nicholas I, and estimate the value of the reforms of

Alexander II.

3. Give a short account of the Third French Republic and enumerate its chief problems. Discuss the solution of these problems along with the development of Parliamentary Government.

4. Discuss the solution of the constitutional and racial problems in Austria-Hungary during your period. Sketch the constitution of 1867.

5. Write critical notes on any three of the following:-

(a) The State socialism of Bismarck.

(b) Liberal movement in Turkey under Abdul Hamid II.

(c) Italian colonial expansion in the nineteenth century.

(d) The Dreyfus Affair.

(e) Republican experiment in Spain (1873).

SECOND HALF

Examiner—Dr. Narayanchandra Banerjee, M.A., Ph.D.

1. Write a note on the history of the idea of 1789 (' Liberty, Equality, and Fraternity) in France during your period.

2. Discuss the problems facing the Italian government after the unification of Italy, and show how these problems influenced Italian foreign

3. Write a note on the expansion of Russia in Central Asia and the Far East during your period and show the effect of this expansion on her relations with (a) Great Britain. (b) Japan.

4. Discuss the effect on the foreign policy of Germany of the dismissal of Bismarck by the Emperor William in 1890.

5. Sketch in outline the main provisions of the treaties by which Great Britain and France, in 1904, settled their outstanding differences in various parts of the world and thus laid the foundation of the entents cordiale.

(ECONOMIC HISTORY)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Susobhanchandra Sarkar. M.A.

Attempt any THERE questions

1. What are the sources of our information for the reconstruction of

the history of the manor in England?

2. Explain carefully the relation between the municipalities on the one hand and the guild merchants and the craft guilds on the other, in mediaeval England.

3. Indicate the part played by the fairs in English economic develop-

ment.

11 -

4. Examine the position of women in industry during the Middle Ages.

Point out the influence of the Church on mediæval economic ideas and institutions.

5. Give a short outline of the economic policy of the central government in England from the Norman to the Tudor period.

SECOND HALF

Examiner-Mr. K. D. BANERJEE, M.A.

Attempt any THREE

1. How far is it accurate to regard Capitalism as a product of the Industrial Revolution?

2. Indicate the different stages in the history of Trade Union organi-

sation in England and mention their salient features.

3. Account for the abandonment of the policy of laissez faire in England in the 19th century.

4. Explain the arguments used in favour of and against the retention

of the Corn Laws in the second quarter of the 19th century.

5. Is it possible to account for the fact that the Industrial Revolution took place first in England?

SEVENTH PAPER

The questions are of equal value.

FIRST HALF

Examiner—DR. J. P. NIYOGI, M.A., PH.D.

Answer any THREE questions

1. What was the nature of the currency problem which faced Cornwallis on his arrival in Bengal? How did he attempt to solve it?

2. Describe the state of the handicrafts in India during the early years of the nineteenth century. To what causes do you ascribe their decay?

3. State the circumstances that led the Government of this country to intervene with a view to protect the interest of the tenants. Briefly describe the principles underlying tenancy legislation, and state the provisions of the Bengal Tenancy Amentment Act of 1928.

4. Sketch the history of the Indian steel industry. To what extent has its growth been facilitated by tariffs?

India is a wast aggregation of villages.' Comment on this statement and compare the industrial organisation of India with that of Great Britain.

SECOND HALF

Examiner—Dr. A. P. DASGUPTA, M.A., Ph.D.

Answer any THREE

1. What do you know of banking organizations in Bengal during the second half of the 18th century?

2. How did the Crimean War, the American Civil War, and the Franco-German War influence Indian trade and industry in the 19th cen-

3. Sketch the history of the Indian jute mill industry from 1854 to

the present day.

4. Briefly describe the origin and later developments of the Indian Cotton Excise Duty.

5. Trace the growth of the Trade Union movement in India, and

discuss some of the difficulties which the movement has to contend with in this country.

(Essay)

EIGHTH PAPER

MR. R. B. RAMSBOTHAM, M.A., B.LITT, M.B.E Examiners—

MR. R. B. RAMSBOTHAM, M.A., B.LITT, M.B.E.
DR. H. C. RAYCHAUDHURI, M.A., Ph.D.
MR. P. N. BANERJEE, M.A., B.L., BAR.-AT-LAW

,, T. CHAKRABARTI, M.A.

,, ARTHUR BROWN, M.A., LL.B.

,, S. N. SEN, M.A., B.LITT, Ph.D.

,, I. BANERJEE, M.A.

,, S. C. DATTA, M.A.

,, T. CHAKRABARTI, M.A.

DR. N. C. BANERJEE, M.A., Ph.D.

The figure in the morgin indicates full marks.

Write an essay on any one of the following subjects:-

100

1. British social, constitutional, and cloonial development during the Victorian age.

(2) 'Harsha was a worthy successor to the glories of the Mauryas and the grandeur of the Guptas.'

 (3) Egypt's and Babylon's contribution to civil sation.
 (4) Prerogative, Parliament, and Common Law in English the sixteenth and seventeenth constitutional development during centuries.

(5) Freedom of the High Seas.(6) Free thinking in Islam.

(7) Maratha Navy under the Angrias.
(8) The Sikhs are not, and never have been, a nation in any intelligible sense.'

(9) Mewar's part in Rajput struggle for freedom.

(10) Survival of Mughal institutions in the British Administrative System in Bengal during the latter part of the eighteenth century.

(11) Post-war Protectionist Movement in India.

(12) The spirit of the Chinese Revolution in the twentieth cen-

(13) The sovereignty of the Pritish Dominions.

(14) Ancient democracy: its lessons for modern times.

(15) Canada and Australia as models for federalism in India.

(16) Nationalism and Imperialism in the nineteenth century.

ECONOMICS

FIRST PAPER

The questions are of equal value

Unly THREE questions are to be attempted from BACH half.

FIRST HALF

Examiner-Mr. HARICHARAN GHOSH, M.A.

1. How far may the differences of average economic welfare in different countries he attributed to greater or less density of population?

2. Examine the importance of the concept of marginal utility in

Hconomice.

9. What are the ultimate real costs to which the money costs of

production corremand?

4. 'It is by the marginal firm as by the marginal farm that prices in industry as in agriculture are determined.' Examine this statement, with reference both to the conditions of increasing returns and diminishing returns

5. How far does the free play of self-interest tend to distribute the country's resources in the way most favourable to the production of the

largest possible National Dividend?

SECOND HALF

Examiner-Mr. N. S. SUBBARAO, M.A.

6. Explain the meaning and theoretical importance of the concept of Quasi-rent. What is the relation in the long run between quasi-rents and normal profits?

7. Discuss the chief means and agencies by which the mobility of

(a) Labour, and (b) Capital can be promoted.

8. 'We have insufficient evidence to warrant the assertion that the particular rate of interest which happens to prevail is a measure of the sacrifice involved in the marginal saving.' Comment on this, and discuss the effect of changes in the rate of interest on the supply of capital.

9. Explain the influence of modern financial or marketing organization

on the size of the business unit.

10. Discuss the underlying principles of Scientific Management and indicate its potential influence on the earnings and walfare of labour.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Rohinimohan Chaudhuri, M.A.

Attempt any THREE questions.

1. 'The real difficulty with regard to price stabilisation is simply the determination of the level from which to start.'

Comment on this statement with regard to its theoretic implications

and its bearing on post-war currency changes.

2. 'No country can permanently gain or lose in respect of its natural advantages for industries by changes in the external value of its currency unit.' Elucidate the statement.

3. Trace the parallelism between international trade and trade between

non-competing groups.
4. What are the circumstances that have led Labour to demand an increased control over industrial management? How far can this demand be advisedly conceded?

5. What are the factors that have determined the distribution of gold in recent years? Distinguish between the monetary and non-monetary causes in operation.

SECOND HALF

Examiner-Dr. J. P. Niyogi, M.A., Ph.D.

Attempt ANY THREE questions.

1. Compare the merits and demerits of the different methods of the formulation of the Quantity theory of money.

2. 'The Federal Reserve System of America was expected to protect the country's financial and industrial structure against the impact of international gold movements.'

Describe the main features of the Federal Reserve System and indicate

how far this system has been successful in attaining the desired end.

8. 'The post-war gold standard is fundamentally different from the pre-war gold standard.' Comment on the statement.

4. 'So long as credit is regulated with reference to reserve proportions, the trade cycle is bound to recur.' Do you support this view?

5. Compare the economies of vertical and horizontal combinations in modern industries.

THIRD PAPER

The questions are of equal value

FIRST HALF

Examiner—Prof. S. C. RAY, M.A.

Attempt only THREE questions.

1. Criticise Mill's doctrine that it is 'a necessary condition of free institutions that the boundaries of States should coincide in the main with those of nationalities.

Contrast this with Lord Acton's theris that it would be advantageous

to have many nationalities in a single State.

- 2. Discuss the application of the do trine of Natural Selection to social philosophy. Is the process of cosmic nature similar to the ethical process of human society? Define Progress with reference to the conclusions you arrive at.
- 3. What are the nature and chara teristics of the great world force called Imperialism? By what processes does Imperialism operate and what have been its reactions on the East?
- 4. How would you differentiate between the social contract theories of Locke and Rousseau? Indicate the methods by which it was sought to limit political power by natural law, natural rights, and the principle of the social contract.
- 5. Discuss the constitutionality of the existing Government of Italy. In what sense can it be said, with plausibility, that the present executive is not a Dictator but an instrument of Democracy?
- 6. Examine the nature of the relation between the State and the individual. Show how socialisation and individual sation are different espects of the same question and how society and the individual can be barmonised in a perfect democracy.

SECOND HALF

Examiner-Mr. Durgagati Chattoraj, M.A.

Answer any three questions

1. Write a short history of the 'Law of Nature.' What has been its influence on political thought? Is the conception of the 'Law of Nature fanciful or abourd as some political philosophers suggest?

Democracy involves (1) political organisation, (2) industrial organimation, (3) social or cultural standards operative in daily intercourse. Explain.

3. Write a short note on the theory of the State as Power versus the theory of the State as Justice. Or.

Write a short note on the Executive as a political institution.

4. How did property originate?
Property is more than seizure and appropriation of an object for the supply of a passing need.' Explain.

5. 'The Internationalists would shackle Levisthan with chains while the Pluralists would perform necessary operations on his interior.' Discuss.

6. What in your opinion is the fruction of Punishment in the State?

FOURTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. W. C. Wordsworth, M.A., M.L.C.

Answer THREE questions only

1. Comment on Lowell's statement that the Home Secretary is kind of residuary legatee. What are his chief duties, and how is the Home Office organized?

2. 'The abolition of the monarchy would mean the dissolution of the Empire.' Discuss this statement.

3. Describe the leading tendencies in public finance in Great Britain since the war.

4. How do you account for the numerical weakness of the Liberal Party in the House of Commons nowadays? In what sense does the party contribute to political stability?

5. Examine the arguments for an Economic Parliament separate from

the ordinary legislature.

6. Discuss the statements (1) that the British Parliament is over-whelmed with legislation and cannot adequately discharge its functions; (2) that the British Parliament has permitted the permanent Civil Service to encroach on its sphere.

SECOND HALF

Examiner—Prof. Pramatuanatu Banerjea, M.A., D.Sc. M.L.C.

THREE questions only to be attempted

'The Secretary of State for India is vested with greater power over the administration of India than was ever exercised by the Great Moghul.' Examine the statement with reference to the relations of the Secretary of State with the British Parliament and the Governor-General in Council.

2. If you were asked to prepare a scheme of an All-India Federation, what would be your main proposals? Give reasons for the suggestions

you make

3. Discuss the position and nowers of Ministers in the Governors'

Provinces under the Government of India Act.
4. Give a brief account of the Famine Taxes imposed in India in 1877-1878.

5. Briefly describe the methods of taxing intoxicating liquors and drugs in India.

In case a policy of prohibition is adopted for Bengal, what steps would

you take to meet the resulting deficit?

6. Critically examine the main sources of revenue and the chief heads of expenditure of the Government of India, and suggest changes which you consider necessary or desirable.

(GROUP A.)

FIFTH PAPER

FIRST HALF

Examiner-Mr. BIJAYKUMAR SARKAR, A.B.

Answer ANY THREE questions

- 1. Explain briefly, but clearly, the fundamental essence of Mercantilism.
- 2. 'Smith, indeed, might well be regarded as a fore-runner of Socialism.

Comment on the statement.

3. Give a critical estimate of the place of J. S. Mill in the history of economic thought.

1. Explain briefly, but clearly, what you consider to be the special contribution of German writers to the development of economic doctrine.

- 5. Give a brief critical estimate of the contribution made to economic thought by any three of the following:-
 - (a) Louis Blanc, (b) Sen'or, (c) Ruskin, and (d) Bernstein.

SECOND HALF

Examiner-Mr. Bhujangadhushan, Mukherjee, M.A.

Answer ANY THREE questions

1. 'Tariff Reform was prote tion with a new name.'

Explain the above, and indicate the circumstances which led. in recent times, to a demand for the modification of Free Trade in England.

2. Give a brief account of the growth and development of joint-stock banking in England. How far does it meet the needs of modern trade and industry?

3. Trace the growth of the co-operative movement in England. Discuss,

in this connection, the special difficulties of co-operation in India.

4. Is England still the workshop of the world? State and explain the recent developments which have affected her position in this respect.

5. Trace the growth of apitalism in England. Discuss its merits and defects. Suggest safeguard; which will make it work more in the interest. of the community as a whole.

(GROUP B)

FIFTH PAPER

Examiner-Mr. JOHN KELLAS, M.A.

The questions are of equal value

FIRST HALF

N.B.-Answer Question 1 and Two more from this half.

1. Comment on any two of the following:

(a) 'Hear then, said he (Thrasyma hus), for I say that what isjust is nothing else but the advantage of the more powerful.' (Plate's Republic.')

(b) 'And the State is the union of families and villages having for an end a perfect and self-sufficing life, by which we mean a happy and honourable life.'

(Aristotle's ' Politics.')

(c) 'The citizen should be moulded to suit the form of government under which he lives.' (Aristotle's 'Politics.')

2. Explain clearly the central theme of the 'Republic.' How does

Plato propose to realize his political objective?

- 3. Explain the views of Plato and Aristotle on the sphere of State action.
 - Trace the influence of the Stoics on Roman political thought.

5. Briefly review the history of the doctrine of natural law.

SECOND HALF

Examiner-Mr. NIRMALCHANDRA BHATTACHARYVA, M.A.

N.B.—Answer Question 1 and Two more from this half.

1. Comment on any two of the following:-

(a) 'A prince, therefore, being compelled knowingly to adopt the beast, ought to choose the fox and the lion.' (Machiavelli's 'The Prince.')

(b) 'So that in the nature of men we find three principal causes

of quarrel. First, competition; secondly, diffidence; thirdly, glory.' (Hobbes'

Contract.')

- 'Leviathan.')
 (c) 'The state of nature has a law of Nature to govern it, which obliges everyone; and reason, which is that law, teaches all mankind, who will but consult it, that all being equal and independent, no one ought to harm another in his life, health, liberty, or possession.' (Locke's 'Second Treatise.')
- (d) 'Every member of the community at the moment of its formation gives himself up to it, just as he actually is, himself and all his powers, of which the property that he possesses forms part.' (Rousseau's Social

2. Consider carefully the claim that Machiavelli is the founder of

modern political theory.
3. There was a Rousseau whose political influence was in the direction of an extreme individualism, as there was a Rousseau whose work produced a collectivism of a certainty not less extreme.' Explain this statement with reference a political thought after Rousseau.

4. Is it correct to say that 'mediævalism contains elements of modernism 'as far as political theory is concerned? Elucidate and illustrate

the statement.

5. Give a short historical review of the doctrine of sovereignty.

(GROUP A) (BANKING AND CURRENCY—FIRST PAPER)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. B. R. RAO, M.A.

THERE questions only to be answered

1. Discuss briefly the chief obstacles in the way of New York becoming the leading international financial centre.

- 2. 'The percentage system of note issue appears to combine all the possible defects of systems of note regulation.' Discuss.
- 8. Explain the functions of industrial banks and show how far the existing structure of the Indian banking system can be amended or developed to meet the needs of industry.

4. Comment on the chief obstacles in the way of organising an Indian Overseas Bank for finan ing the foreign trade of India. To what extent

have the Exchange Banks been serviceable to us in the past?

5. Give a short account of the Loan Companies of Bengal and the position they occupy in the banking system of the province. Can you suggest any practical remedies for improving their position?

SECOND HALF

Examiner—Dr. B. B. DASGUPTA, M.A., D.Sc., Ph.D.

Answer ANY THREE

1. Discuss briefly the powers and functions of the Bank for International Settlements.

Or.

Give an outline scheme for a Land Mortgage Bank for supplying long-period redit to Indian agriculturists.

2. Do you advocate regulation of banks by law? If so, what sort of

laws would you advocate?

- 8. Discuss generally the advantages of a Central Bank and in particular the assistance that it renders in combating industrial booms and depressions
- 4. What, in your opinion, are the reasons for the slow progress of hanking in India? What suggestions would you make for accelerating development?
 - 5. Give a short account of the banking system of England or U.S.A.

(GROUP A)

(BANKING AND CURRENCY—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Akshaykumar Sarkar, M.A.

THREE questions are to be answered

1. Explain some methods of measuring movements of general prices. Point out the principal difficulties involved, and indicate the precautions by means of which it is attempted to overcome them. How far or within what limits do you consider that trustworthy results are obtainable?

2. Explain what is meant by the Bank rate of discount. What is the connexion between the Bank rate and Market rate? What course does the

Bank of England take to make its rate effective?

3. Discuss the view that 'the most powerful influence determining the value of the currency unit of any country is the credit of the State.'
4. Contrast the organisations of England and Germany for the supply

of capital for industrial, as distinguished from commercial, purposes.

5. What provis on was made by the Federal Reserve Act with respect to (1) participation in the Federal Reserve system, and (2) definition of paper eligible for discount by the Reserve Banks in order to ensure a strictly commercial 'banking system.

SECOND HALF

Examiner—MR. S. K. RUDRA, M.A.

THREE questions only to be answered

1. Give a brief history of India's currency system since 1893.

2. Discuss the nature of the demand for gold currency in India in the sixties of the last century and subsequently.

Comment on the attitude of the Government of India and also of the

Home Government in this respect.

8. Describe the characteristic features of the 'Gold Bullion Standard.' Compare it with Ricardo's 'Gold Ingot Plan.'

4. Stability of exchange was the supreme consideration with Govern-

ment; and everything else was subordinated to this end.'

Discuss the above statement regarding the management of the Indian currency.

5. Discuss the significance of the following dates in the history of Indian currency :--

1835, 1861, 1899, and 1926 A.D.

(GROUP A)

(INTERNATIONAL TRADE—FIRST PAPER)

SIXTH PAPER

The questions are of equal value

Answer ANY THREE questions from BACH half

FIRST HALF

Examiner-Mr. A. C. SENGUPTA, M.A.

1. Discuss the comparative merits and demerits of studying inter-

national trade in terms of money and in terms of barter.

2. What are the possible effects of an export duty on the country imposing it? In this connection consider some of the export duties imposed in India in recent years.

3. Under what conditions will you justify protection of an indigenous industry? What different forms can such protection take? What are the advantages and disadvantages of each?

4. Examine the views (a) that dumping tends to stabilise industry. and (b) that dumping means a present by one nation to another and should therefore be welcome to the nation receiving the present.

5. Discuss, from the point of view of international trade, the policy

of Germany in stabilising her currency after the Great War.

SECOND HALF

Examiner-DR. J. C. SINHA, M.A., Ph.D.

6. Explain the theory of comparative cost. In what respects, if any, does_this_theory differ from the principle of territorial division of labour?

7. Comment on the following statements:-

(a) Complete freedom of trade would bring about an equalization of money wages all over the world.

(b) But for cost of carriage, every commodity (if trade be supposed

free) would be regularly imported or regularly exported.

8. How far is protective tariff a suitable agency for (a) the reduction

of unemployment, and (b) the raising of wages?

9. Discuss the importance of international gold movements in the theory of foreign trade. Do you think that such movements are likely to be less frequent in future?

10. Examine the case for granting protection to the Indian sugar

industry.

(GROUP A)

(INTERNATIONAL TRADE—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner—DR. J. P. NIYOGI, M.A., PH.D.

Answer ANY THREE questions

1. Discuss the advantages of the Maximum-Minimum tariff system of France. How far has this system proved to be a good means of obtaining tariff concessions by means of negotiations?

2. Examine the effect of Protection on the growth of the American iron and steel industry. To what extent was this growth promoted by other

factors?

3. Trace the growth of Protection in India since the outbreak of the Great War.

4. Examine the validity of the arguments used in the U.S.A. for a

policy of Protection at different stages of the tariff controversy.

5. Employed as a means of retaliation, the system of tariff restriction is disastrous, as a means of preference it is improper, as an encouragement to an exotic industry it is powerless and futile.

Critically examine this statement in the light of tariff history.

SECOND HALF

Examiner-MR. K. B. SAHA, M.A.

Answer ANY THREE questions

1. Account for the Protectionist reaction in Germany after 1671.

2. Explain how protective duties may affect prices and money incomes in a country.

In what circumstances may such duties bring more advantageous terms of international exchange? Do you consider that any sound argument in favour of Protection can be based on this?

3. Critically examine the view that ordinary protective duties are no

safeguards against dumping.

4. Explain the importance of cost analysis in fixing tariff rates. What

are the limitations of the 'principle of equalising costs?'
5. 'When a protective import duty is imposed, the burden inflicted on the consumers is not a net burden to the country, but is a mere transference of wealth to other persons in the country.'

Do you agree with this statement? Give reasons for your answer.

(GROUP A)

(MATHEMATICAL ECONOMICS—FIRST PAPER)

SIXTH PAPER

The questions are of equal value

Only THREE questions to be attempted from EACH half

FIRST HALF

Examiner—MR. BRAJAKISOR DATTA, M.A.

1. Write a short note on the Mathematical method. Show mathematically that 'the remuneration of the different agents of production according to their marginal services exhausts the national

dividend.'

2. Examine critically the Optimum Theory of Population.

3. Explain how far the concept of a representative firm is adequate in solving the problem of value under increasing returns.

'The origin of interest is not the difference between the value of

present and prospective commodities.' Comment upon it.

5. Explain carefully that in railway rates ' the cost of service principle corresponds to simple competition and the value of service principle to discriminating monopoly of the third degree.

SECOND HALF

Examiner-MR. HARICHARAN GHOSH, M.A.

1. Trace and prove the normal shape of the Integral demand curves. Show that they are loci of the points where the straight lines from the origin touch one or other of the constant utility curves.

2. Explain the 'Expansivity of demand.' How is it related to

elasticity of demand?

Can you measure elasticity of supply from an Integral supply curve?

3. Account for the shape of the Zero Indifference curves. Prove general characteristics of the Indifference curves.

4. 'The gain resulting from a premium to producers is essentially less than the public sarrifice at the cost of which the gain is attained.' (Cournet.) Support it mathematically.

5. Show that the increment of price due to the imposition of a tax on a commodify depends upon the elasticity of demand and supply of the commodity.

How far is elasticity of supply a necessary factor in price-determina-

tion?

(GROUP A) .

(MATHEMATICAL ECONOMICS—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value Only there questions to be attempted from EACH half

FIRST HALF

Examiner-Mr. Brajakisor Datta. M.A.

1. 'The price which any individual is willing to pay is simply the ratio between two marginal utilities—that of a commodity and that of money.' (Fisher.) Explain.

Point out the qualifications involved in the use of money as an instrument of utility (a) of different objects to same persons, and (b) of the

same object to different persons.

2. Explain the use of Marshall's 'Compromise benefit curves.'

Show that the proportion in which amount demanded increases in consequence of a small fall in price varies directly as the square of the price.

3. It seems a matter of course that when cost of production increases the price fixed by the monopolist will increase likewise.' (Cournot.) Can

you support this by a mathematical demonstration?

4. The general definition of Increasing returns comprehends a particular and limiting case in which difference in degree almost amounts to a difference in kind.' (Edgeworth.) Explain.

5. Examine the factors which determine the amount of rent from a piece of land. How can a change in the price of the produce affect (1) its absolute rent, (2) rent per unit of outlay?

SECOND HALF

Examiner-Mr. Haricharan Ghosh, M.A.

1. 'The differential calculus unlocks the treasure-chamber of the pure theory of Economics.' Comment upon it.
2. Discuss the concept of consumers' surplus and the difficulty of

accurately representing it in the rate demand curve.

8. 'An aggregate demand or supply schedule is always made up by the simple addition of a number of independent demand or supply schedules. Carefully examine this statement and point out the limitations, if any, of this usual assumption.

4. How is it possible for increasing returns to prevail in any industry without leading to the monopolisation of the whole market by a single

producer?

5. Examine critically the statement: 'Economic analysis warns us that, as, a general rule, bounties lead to economic waste."

(GROUP A)

(STATISTICS-FIRST PAPER)

SIXTH PAPER

The questions are of equal value

Answer ANY THREE questions from BACH half

FIRST HALF

Examiner-Prof. G. FINDLAY SHIRRAS

- 1. Describe the main contributions of Galton to the science of statistics.
- 2. Carefully explain :---
- (a) Frequency distribution; (b) standard deviation; (c) correlation coefficient and correlation ratio.

Show the use of each.

3. A population consists of X individuals, of whom X_1 are white. A random sample of Y individuals contains Y white. Show that the coefficient of variation of Y -from sample to sample is

$$100 \checkmark \{ (X-X_{.})/X_{.} Y \}$$

- 4. If you were to conduct a statistical investigation into trade cycles in India, carefully describe the factors which in your opinion will require analysis.
- 5. Is $(I_1 I_2)_2$ theoretically the best formula for an index number, where

$$I_1 = \Xi q_0 p_1 / \Xi q_0 p_0$$

$$I_1 = \mathbb{E}q_1p_1/\mathbb{E}q_1p_0$$

the q's referring to quantities and the p's to prices at the two dates?

How far is it practicable to compile such an index number?

SECOND HALF

Examiner-Dr. Harischandra Einha, M.Sc., Ph.D.

1. Given :-

Age	No. of deaths in a year per thousand
95-35 85-45	165 866
45-55	711

Find the numbers corresponding to age groups 30-40 and 40-50.

2. Calculate roughly the coefficient of correlation between income and rent from the following data:—

	Wrbely income						
Weekly rents		Rs. 15 to Rs. 20	Rs 20 to Rs. 25	Rs. 25 to Rs. 30	Rs. 30 to Rs. 35	Rs. 35 to Rs. 40	
Rs. 2 to Rs 4		1	1	1	0	o	3
Rs. 4 to Rs. 6		5	16	8	7	0 5	41
Rs. 6 to hs. 8	•••	1 5 3	14	1 8 13	14	9	3 41 58
Rs. 8 to Rs. 10	•••	0	0	0	1	2	3
Total cases	•••	9	31	22	22	16	100

Averages		Standard Deviations	
Incomes	Rs. 27.75	6.0	
Rents	,, 6·12	1 ·21	

3. Describe the difference between the earnings of balers and boiler-cleaners from the following data:—

	Balers	Boiler-cleaners	
	Rs. A. P.	Rs. A. P.	
Mean earnings per day	1 2 1	1 2 1	
Lower quartile	0 15 0	0 14 0	
Median	1 2 0	0 15 8	
Upper quartile	1 4 9	1 2 0	

4. The following are the numbers of accidents in a regiment in England and Wales during the 20 years from 1892 to 1911 inclusive. Do the numbers show any greater variation than what might be expected from the fluctuations of sampling alone?—

Year	Number	Year	Number
1892	16	1902	99
1893	16	1903	95
1894	18	1904	18
1895	10	1905	17
1896	20	1906	8
1897	7	1907	10
1898	10	1908	12
1899	15	1909	19
1900	14	1910	16
1901	15	1911	16

5. Explain the methods for calculating the number of rupees in circulation. How far in your opinion can an estimate based upon any of these methods be relied upon?

(GROUP A)

(STATISTICS—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. SURENDRANARAYAN BANERJEE, M.A.

Only THREE questions to be attempted

- 1. What methods can be employed for estimating the population of India and of parts of it in years other than those of the censuses? Which method do you consider best, and why?
- 2. Explain and criticise the main features of the scheme of classification of occupations which was adopted in the census of India (1921).
- 3. Write a short note on the difficulties in the compilation and manipulation of wage statistics in India.
- 4. Describe the statistical material available for determining the total amount of cotton manufactures in India, pointing out any substantial difficulties in the data.
- 5. What are the advantages and disadvantages of using 'official' and 'declared' values respectively in the compilation of the statistics of imports and exports? Refer to the practices of a few of the more important commercial countries of the world in this connection and analyse the bearing of these practices on the comparability of trade balances.

SECOND HALF

Examiner—Prof. G. FINDLAY SHIRRAS

Only THREE questions to be attempted

- 1. The following data are taken from 'Statistical Tables relating to British and Foreign Trade and Industry' (Cmd. 3737, 1980):-
- (a) Standard hourly time rates of money wages in Great Britain, Germany. France, and the United States in July, 1930, were respectively 1s 8\frac{1}{2}d. (London), 1.54 Reich marks stellop 86.1 pus '(strail) sousil 9 '(uiled) (New York). (Par of Exchange 20.43 marks to £1, 124.21 francs to £1, 4.86\frac{1}{2} dollars to £1.)
- (b) Index number of comparative real wages in certain large towns of various countries in January, 1930:—

Index numbers in relation to Great Britain (=100).

United States				4.00
		•••	•••	197
Canada	• • •	•••	•••	165
Australia	•••	•••	•••	148
Germany	•••	•••		77
France	•••	•••	•••	58
Italy	•••	•••	•••	48

What conclusions can be drawn from the data? Point out with care the limitations to such conclusions.

2. Describe the various items on which enumerators had to collect

information at the recent census of India.

What were the measures taken to ensure statistical accuracy? In what respects did the 1931 census differ from that of the 1921 and 1911 censuses?

3. Write a critical account of the method of compiling an official Cost of Living Index for British India. Illustrate, if possible, some of the difficulties from the Cost of Living Index published by the Labour Office of the Government of Bombay.

4. What are the items which you would include in the construction of

an index of business activity in India?

How would you collect the information? Would you combine the results of the various indices in such a way as to produce a weighted index for all items?

5. How would you calculate invisible imports and exports in the case of one of the following countries: India; United Kingdom; the United States of America?

(Group B)

(COMPARATIVE POLITICS—FIRST PAPER)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner—DR. U. N. GHOSHAL, M.A., Ph.D.

Inswer THREE questions from BACH half

1. Briefly describe the working of the democratic constitution of Athens. Point out any lesson from it for constitutions suited to modern democracies of the type of nation-states.

2. Explain how the federal constitution developed in Greece, illustrating from either the Achaean or the Aetolian league. What defects do you find

in it that led to its final dissolution?

3. Describe the administrative and fiscal system that obtained in the Roman provinces. How did the system ultimately lead to the breakdown of democracy and give rise to the Empire?

4. Explain the principal features of jus naturale and show how it has

affected the modern law of equity.

5. Describe the organisation of village administration as depicted in Kautilya's Arthashastra.

SECOND HALF

Examiner-Dr. Praphullachandra Basu, M.A., Ph.D.

1. Analyse the leading features of the ideal States of Plato and Aristotle, and consider their implied criticism of the current types of constitution and forms of government in Ancient Greece.

2. Examine Solon's place in the list of constitutional reformers, and indicate in what sense his work marked an epoch in the history of the

8. What approaches were made towards democratic development in Ancient Rome? How and why did these tendencies fail?

4. Describe the struggle between oligarchy and democracy in the mediaval Italian cities. In what respects did it differ from the corresponding struggle in Ancient Greece and Rome?

5. Discuss the limitations, moral and legal, to which the Ancient

Indian kingship was subject.

(GROUP B)

(COMPARATIVE POLITICS—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value FIRST HALF

Examiner-Mr. P. N. BANERJEE, M.A., B.L., BAR.-AT-LAW.

Answer SIX questions: THREE from BACH half

1. 'The merits and defects of a non-parliamentary executive are the exact opposite of the merits and defects of a parliamentary executive."

- (Dicey.) Discuss.
 2. The accumulation of all powers, legislative, judicial, and executive, in the same hands, whether of one, a few, or many, whether hereditary, self-appointed, or elective, may justly be pronounced as the very definition of tyranny.' (Federalist.) Examine the accuracy of the statement by a comparative study of the constitutions of (i) England, (ii) U.S.A., (iii) Russia,
- 3. Explain what is meant by the checks and balances of the constitution. Enumerate the checks and balances in the constitutions of (1) England (2) U.S.A., (3) Germany.

4. Wherein does the constitution of Canada diverge from the normal

Federal type?

5. Enumerate the powers the Crown in England has reserved to itself in the constitutions of (i) Australia, (ii) South Africa, (iii) the Irish Free

Wherein does the House of Lords in England differ from the Judicial Committee of the Privy Council as a Supreme Court of Judicature?

SECOND HALF

Examiner—Mr. N. C. CHATTERJEE, M.A., BAR.-AT-LAW

Why are not great men chosen as Presidents in the U.S.A.?
 How do the courts act as guardians of the constitution in (i) En

How do the courts act as guardians of the constitution in (i) England, (ii) U.S.A., (iii) Germany?

9. Compare the powers and functions of the President of the Reich in

Germany with those of the President of the U.S.A.

- 10. Compare and contrast (with respect to their composition and functions) (a) the Senate of the U.S.A. and the Senate of Canada, (b) the House of Commons in England and the House of Representatives in the T.B.A.
- 11. How would you deal with the question of minority representation in a future constitution of India?
- 19. How would you account for the comparative instability of the ministries in France?

(GROUP B)

(INTERNATIONAL LAW-FIRST PAPER)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. S. C. CHARRABARTI, M.A.

Answer ANY THREE

'The Covenant (of the League of Nations) appears to be but one course of masonry in the future temple of International Law. Only a shortsighted critic would mistake it for the temple itself, and only one who is ignorant of the architecture of law would find fault with it for not being the finished structure.' Discuss this statement.

- 2. Write short notes on the international status of any three of the following: (a) The Papacy, (b) Tangier, (c) Cuba, (d) Korea, (e) Zanzibar.

 3. Define 'Piracy,' 'Slave-trade is not piracy jure gentium.' Discuss.

 4. 'The principle of territorial sovereignty and territorial jurisdiction overrides that of the authority of a State over its merchantmen when the two conflict.' Discuss this statement by reference to illustrative cases.
 - 5. State and annotate any three of the following cases:
 - (1) The Catoline (1838).
 - (2) The Exchange (1810).
 - (8) The case of Savarkar (1911)

 - (4) The Malacca (1904). (5) The case of Don Pantaleon 8à (1653).

SECOND HALF

Examiner—Prof. ARTHUR BROWN, M.A., LL.D.

Answer ANY THREE

1. State what you understand by 'International Law' and give your own opinion as to whether it is rightly so called.

Write a short note on the various schools of International Law.

2. Does International Law (apart from engagements which States may have entered into by express treaties) contain any principles relating to infernational rivers? How have the principal international rivers been dealt with by treaty?

8. Write a full note on diplomatic immunities from jurisdiction.

4. A text-book on International Law, published in 1904, contains s chapter entitled 'Rights or claims of States in relation to territory which fall short of sovereignty in its fullest shape.' This chapter enumerates such rights or claims and also gives leading examples of each. In the event of your bringing out an up-to-date edition of this text-book what alterations and amendments in this chapter would you be likely to make?

5. Write a note on criteria of nationality and show how far the principle of option has been used to solve the problem of double nationality.

(GROUP B)

(INTERNATIONAL LAW—SECOND PAPER)

SEVENTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. P. N. BANERJEE, M.A., B.L., BAR, AT-LAW.

Answer SIX questions, THREE from BACH half

- 1. 'Grotius's Jus getium was positive law instituted by the consent of all nations.' Is this a correct description of Grotius's position in De Jure Belli ac Pacis?
 - 2. What are the respective positions of (a) India, (b) Canada, (c)

- Germany, (d) Japan, in the League of Nations?

 3. What is the position in International Law of (a) British North Borneo Company, (b) Tanganyika, (c) Egypt, (d) Suez Canal, (e) Switzerland, (f) Belgium?

 4. 'The League of Nations is an international person, suigeneris,

- something not to be likened to anything else. Discuss.

 5. What are mandatory territories? Where does sovereignty lie in such territories?
- 6. How far has modern International Law regulated the (i) use of aircraft (a) in time of peace, (b) in time of war; (ii) the use of submarines and poison gas in time of war?
 - 7. Write notes on any four of the following:
- (a) The Alabama, (b) the Peterburg, (c) the Shenandoah, (d) the Sitka, (e) In re Castioni, (f) In re Rauscher, (g) In re Savarkar.

SECOND HALF

Examiner-Mr. Nirmalchandra Chatterjee, M.A., BAR.-AT-LAW.

- 8. Enumerate some of the diplomatic immunities. How far do consuls possess them?
- 9. Distinguish between (a) Recognition of Belligerency and Recognition of Insurgency, (b) Blockade and Pacific Blockade.
- 10. How far does declaration of war affect treaties between the belligerents?
 - What is the position of enemy subjects at the outbreak of war?
- 12. 'International Law draws a sharp distinction between completed conquest and belligerent occupation. How?
 - 13. Write notes on any four of the following:-
- (a) Requisitions, (b) sequestration, (c) cartel ships, (d) Levies en
- masse, (e) Francs tireurs, (f) capitulations.

 14. What do you mean by the doctrine of 'free ships, free goods'?

 How far has this doctrine been affected by (1) the Declaration of Paris, 1856, (2) the last great war?

(GROUP B)

(SOCIOLOGY—FIRST PAPER)

SIXTH PAPER

The questions are of equal value

FIRST HALE

Examiner-Mr. Khagendranath Sen. M.A.

Answer ANY THREE questions

1. What are the principles of Applied Sociology? Explain with reference to the modern organization of haritable relief.

- 2. Explain the various measures, legislative or otherwise, which have been taken in modern countries to safeguard the interests of the child in society.
- 3. What are the most important features of the movement for criminal reform on the continent of Furore and in America?

4. Explain the scope of Eugenics and its bearing on the study of social

problems.

5. What should be the escentials of a population policy for India?

What methods have been adopted in Pengal to attack the problems of juvenile crime and traffic in women? Have these been successful?

SECOND HALF

Examiner-Mr. S. C. CHARRABARTI, M.A.

Answer ANY THREE questions

1. Write a note on the status of women in primitive society.

2. Define 'totemism.' Discuss critically the various theories of the

origin of totemism.

3. How do you account for the evistence of parent-in-law taboos among primitive people? Discuss this question, with special reference to the theories of Freud and Tylor

4. 'There is no royal road to the comprehension of cultural phenomena.'

Discuss.

5. Discuss briefly the conception of property in primitive society.

(GROUP B)

(SOCIOLOGY-SECOND PAPER)

SEVENTH PAPER

The questions are of equal value FIRST HALF

Examiner—Mr. Pramathanath Sarkar, M.A.

Answer ANY THREE questions.

1. 'Reconomics and Politics are differentiated parts of Sociology, and are therefore distinct though co-ordinated sciences.' Discuss.

2. 'The primordial social fact is imitation.' (Tarde.)

'The elementary subjective fact in society is the consciousness of kind.' (Giddings.)

Critically examine these conflicting views.

- 3. 'There never have been and there never can be more than two great political parties in a nation.' Do you agree? State the reasons for your
 - 4. 'The real problems of sociology are left unsolved by the writers of
- the instinct school.' Elucidate.

 5. 'Society is greater than the mere sum of its parts. Hence public opinion is superior to that of the average individuals and even of the best individuals.' Critically examine this dictum of Durkheim and McDougall.

SECOND HALF

Ezaminer-Dr. RADHAKAMAL MUKHERJEE, M.A., Ph.D.

Answer ANY THREE questions.

1. Interpret psychologically (a) the phenomenon of social change, and (b) the permanence of social institutions.2. Examine the applications of biology to the amelioration or improve-

ment of human society.

3. Discuss the factors implied in the change of the existing code of marital morality in India.

4. What social factors are responsible for the multiplication of population in India? Discuss the social symptoms and effects of over-population.

- 5. Examine the significance of-
 - (a) oaths and ideals.

(b) Sankirtans.

- (c) marriage processions,
- and (d) death-rites, in India.
- 8. Illustrate the elements of race and cultural fusion in Bengales social life and institutions.

EIGHTH PAPER

(PROF. S. C. RAY, M.A. ,, P. N. BANERJEA, M.A., D.Sc. DR. H. C. SINHA, M.A., PH.D. DR. H. C. SINHA, M.A., PH.D.

J. P. NIYOGI, M.A., PH.D.

MR. N. C. BHATTACHARYYA, M.A.

,, R. N. CHAUDHURI, M.A.

,, P. C. GHOSH, M.A.

,, S. C. BANERJEE.

,, K. N. SEN, M.A.

,, S. K. CHAKRABARTI, M.A.

,, P. N. BANERJEE, M.A., B.L., BAR.-AT-LAW

DD. R. C. BAY

DR. R. C. RAU.

The figure in the margin indicates full marks

Write an essay on any one of the following subjects:-

(a) The place of the Indian States in the future constitution of India. (b) The future of Indian finance.

M.A. EXAMINATION:

(c) Trade depression: its causes and remedies.

(d) The post-war protectionist movement in India.
(e) The feminist movement.

(f) Labour conditions in India during the post-war period.
(g) The contribution of Professor Marshall to economic thought.

(h) Statistical determination of fair wages in India.

(i) Machiavellianism.

(i) The danger to world pears from over-population. (k) The League of Nations: its success and failure.

(l) Central Banks.

ANCIENT INDIAN HISTORY AND CULTURE

FIRST PAPER

The questions are of equal value.

FIRST HALF

Examiner-Dr. Abinaschandra Das. M.A., Ph.D.

Only THREE questions are to be answered

1. Prof. J. B. Haldane says that one of the cradles of the human race and civilization was somewhere between Afghanistan and the Punjab. Can you support this statement by the internal evidence of the Rgveda and connect this early civilization with the beginnings of Aryan civilization?

2. Describe the domestic and social life of the Aryans in the Vedic

age, writing short notes on their food, drink, and dress.

3. Trace the origin and development of Kingship in the early Vedic age, and describe the mutual obligations of the King and the People. were the functions of the Sabhas and Samitis?

- Write a brief description of the land where the Rgvedic hymns were composed, mentioning the different tribes of the Arvan race that inhabited it and interpreting the terms Dasas and Dasyus in the light of the Revedic mantras.
- 5. Describe the different modes of disposing of dead bodies in early Vedic times, as representing different stages of culture, and show how they have tended to persist down to the present times.

SECOND HALF

Examiner-Dr. U. S. SUKTHANKAR.

1. Give a precise estimate of the historical value of the Indian epics. Explain the difficulties in the way of their utilization for culture-hitsorical purposes with the help of a concrete instance of some social institution or practice such as the 'suttee' (widow immolation).

How do you account for the fact that while the early Brahmanical literature mentions on the one hand Samtanu and Dhrtarastra (Vaicitravīrya) and on the other hand Parikeit and Janamejava, there is in it no mention of the Pandavas, who (according to the Mahabharata) ruled in the intervening period and who were moreover very illustrious and renowned princes, in fact models of orthodox Keatriyas?

2. Describe the social conditions as reflected in the Sanskrit epics.

3. Give a brief sketch of Government in the Heroic Age of India, with special reference to the relations of the king with the priests, nobles, and the people.

O7,

Illustrate the early and late moral ideas in the Mahabharata. Also sketch briefly the religious and philosophical views of the epics.

SECOND PAPER

The questions are of equal value.

FIRST HALF

Examiner—Dr. RAMESCHANDRA MAJUMDAR, M.A., PH.D. Not more than THREE questions to be attempted

- 1. What are our sources of information about Ajātasátru? Attempt a reconstruction of his life and the history of his time.
- Write a historical note on the republican clans of ancient India.
 Estimate the value and importance of the Purāṇas for the study of the political history of ancient India.

4. Discuss the place of Asoka in the political and cultural history of

India.

5. Write a critical review of Pushyamitra and his times.

SECOND HALF

Examiner-Mr. NARAYANCHANDRA BANERJEE, M.A.

Not more than THREE questions to be attempted

1. Discuss the history and chronology of Eucratides and Heliocles,

- always indicating your source of information.

 2. Discuss the chronology of the Sātavāhana dynasty.

 3. Discuss the early history either of the Vākāṭakas or of Pallavas.

 4. Estimate the influence of foreign invasions on Indian history and culture from the sixth century B.C. to the third century A.D.
 - 5. Write critical notes on any three of the following:-

(1) The kingdom of Sophytes.

(2) The Kidara-kushanas.

(3) The Abhīras.(4) The Chetas of Kalinga.

(5) The Yonas in Asoka's inscriptions.

THIRD PAPER

The questions are of equal value.

FIRST HALF

Examiner-Dr. Hemchandra Ray, M.A., Ph.D.

Attempt not more than THREE questions

 Give an account of the relations that existed between the Gurjara-Pratihāras of Kanauj, the Rāṣṭrakūṭas of Mānyakheṭaka and the Arabs. Refer to your source of information.

2. Write a short note on the Kalacuris of Tripuri with special reference to the reigns of Gangeyadeva and Laksmi-Karna.

3. Give a brief account of the struggles of the Cahamanas of Sakam-

bharī with the Muslims and the Candellas.
4. Give an account of the reign of Anantavarman Codaganga with special reference to his epigraphic records.

5. Write a short account of the more important dynasties that ruled in

Eastern Bengal during the period c. 950-1150 A.D.

6. Critically review the career and achievements of Lalitaditya Muktapida as given in the Rajatarangini of Kalhan.

7. Give an account of the reign of the Caulukya (Solaki) Jayasimha Siddharāja with special reference to Jain and epigraphic records.

8. Write a short account of the first Pala empire with special reference to---

(a) its extent.

(b) its foreign policy,

and (c) its attitude towards Brahmanism and Buddhism.

SECOND HALF

Examiner—Dr. HEMCHANDRA RAYCHAUDHURI, M.A., Ph.D.

Not more than THREE questions to be attempted

'Pulakesi II appears undoubtedly to have been the greatest prince of the early Chalukya dynasty; and his fame reached even foreign countries." Critically examine this statement.

What light do contemporary records throw on the internal organisa-

tion of the early Chalukya empire?

3. Discuss the significance of the rule of the Rahstrakutas from the

point of view of the historian of Jainism and of Islam in India.

4. 'On the surface of the earth there is not a town like Kalyana; never was a monarch like the prosperous Vikramanka seen or heard of.' To what extent is this eulogy justified?

5. Write critical or explanatory notes on any four of the following:-

(a) Ugradanda, the destroyer of the city of Ranarasika.
(b) Vishnuvardhana 'made muddy the waters of the Malapraharinf.

(c) Jaitugi I 'performed a human sacrifice by immolating a victim

in the shape of the fierce Rudra."

(d) Jayasimha II 'subdued the mighty Chola, the lord of the five Dramilas.

(e) The 'wicked' Chola penetrated into the Belvola country, but

eventually yielded his head to Somesvara I.

(f) The history of the Western Gangas starts with Sripurusha-Muttarasa and Sivamara.

FOURTH PAPER

The questions are of equal value. Three questions are to be attempted from each half

FIRST HALF

Examiner-Mr. HARANCHANDRA CHARLADAR, M.A.

1. Discuss fully how far the Indo-Aryans were acquainted with the ocean in the Vedic age. How would you identify the 'four seas' (catubesmudrah) mentioned in the Rgveda?

2. Locate the following tribes of the Vedic age:-Bharata, Kikata, Yadu, Sanjaya, and Pani,

Discuss the Puranic conception of the earth.

4. Describe the Kalinga country, indicating the extent of its empire and its chief centres of political activity at different periods.

5. Draw a sketch map of India, locating on it the territories of the principal Katriya tribes that participated in the great Kuru-Pandava War.

SECOND HALF

Examiner-Dr. P. C. BAGOHI, M.A., D.LITT.

6. Discuss the routes followed by the Yue-chi and the Scythians in their journey to India from the lands of their origin.

7. Describe the extent of Samudragupta's empire and identify the

countries that lay on its frontier.

8. Give in its bare outline the geography of trans-Gangetic India from the data supplied by Greek and Chinese writers.

9. Describe the routes that connected India with the Far Eastern

countries. 10.

Write geographical notes on the following:-Barbaricum, Tamalites, Wu-chang, Po-li-ye-to-lo, and Sakala.

(GROUP A)

(ARCHÆOLOGY.)

FIFTH PAPER

PROF. D. R. BHANDARKAR, M.A., PH.D. DR. N. P. CHAKRABARTI, M.A., PH.D. Examiners-

The figures in the margin indicate full marks.

Attempt THREE questions from each group including Question 1

GROUP A

20

- 1. Translate four of the following extracts into English, adding critical and explanatory notes where necessary:-
- (a) Ta aja Devānampriyasa Priyadasino rāno dhammacharanena bheri-ghoso aho dhamma-ghoso vimāna-darsanā cha hasti-dasanā cha agikhamdhāni cha añāni cha divyāni rūpāni dasayitpā j**an**am.
- dhamma-maha-(b) Bahakā cha e**tā**ya athā vyāpatā mātā cha ithījhakha-mahāmātā cha vachabhümīkā cha afie cha nikāyā ayam cha etasa phala ya ātpa-pāsamda vadhi cha hoti dhammasa cha dipana.

(c) Athā hi pajam viyatāye dhātiye nisijitu asvathe hoti viyata dhāti chaghati me pajam sukham palihatave hevam mamā lajūkā katā

janapadasa hita-sukhaye.

(d) Sarvata vijite mama yutā cha rājūke cha prādesike cha pamchasu pamehasu vāsesu anusamyānam niyātu etāyeva athāya imāya dhammānusastiya yathā anāya pi kammāya.

M.A. EXAMINATION 767 (e) Yatra Amtiyoko nama Yona raja param cha tena Atiyokena chature 4 rajani Turamaye nama Amtikini nama Meka nama Alikasu daro nama nicha Choda-Pamda ava Tambapamniya.

(f) Iyam cha savane vivuthena duve sapamna lätisatä vivuthä ti 200 506 ima cha atham pavatesu likhäpayäthä yata vä athi hetä siläthambha tata pi likhäpayatha ti. Give a resumé of the measures that Aśoka devised and fol-15 lowed for the promotion of Dhamma up to the twenty-seventh year after his anointment. 15 'His (Asoka's) edicts clearly show that there were certain well-defined grades in the influence which he claimed to exercise in different regions.' Show from the edicts how far the above remark is justified. 4. Bring out clearly the importance of Bhabrū edict with 15 regard to the history of Buddhism and its literature. 5. Show from the edicts what you learn about (i) the structure 15 of society in Asoka's time and (ii) Asoka's toleration of religious other than Buddhism. GROUP B 1. (a) Transcribe in Asokan Brāhmī two of the extracts quoted 19 in Question 1, Group A. (b) Give inscriptional evidence to prove that in the second 6 century B.C. there was a contact betwen Vidisa and the Greek kingdoms of the Punjab. Translate two of the following and add notes, showing their 16 historical importance and different interpretations put on them: (a) Pānamtariya-sathi-vasa-sate Rāja-Muriya-kāle vochchhine cha chheyathi Argasi ti kamtariyam upādiyati. (b) Puva rāja-nivesitam Pīthudaga-dabha-nagale nekāsavati jana-pada-bhāvanam cha terasa-vasa-sata-Ketu-Bhadat-it-amara-dehasamghātam. (c) Ditive chuvase achimtavitä Sätakamnini pachhianahaya-gaja-nara-radha vahulam-damdam pathapayati Kasapanam khatiyam cha sahaye vitopati Musika-nagaram. 8. (a) Discuss the history and chronology of the following inscrip-8 tions :-Rājno Gopālīputrasa Bahasatimitrasa mātulena Gopāliyā Vaihidarīputrena Āsādhasenena lenam Kāritam Udrākasa (?) dasame savachhare

8

16

16

4. Give the extent of the Sunga empire and show from evidence, inscriptional or otherwise, that Pushyamitra did not enjoy his dominions unchallenged.

5. Write short notes on eight of the following:—

Tanasuliya; Rāthika-Bhojake; Nainda-raja; Nabhaka-Nabha-pamtishu; Satiyaputo; silā-vigadabhī; Samāja; enusarhyāna; apāsinave; Pushyamitrasya shashthena; Samāpā and Goradhagirī.

(GROUP A)

(ARCHÆOLOGY.)

SIXTH PAPER

The questions are of equal value.

Candidates should give their answers in their own words

FIRST HALF

Examiner-Prof. D. R. BHANDARKAR, M.A., Ph.D.

Only THREE questions are to be attempted, the last one, No. 5 being compulsory

1. Who are the personages mentioned in the various Nanaghat inscriptions? Identify them and write a note, discussing when they flourished and what their relations were with their contemporaries.

2. What evidence is usually adduced to determine the date of Nahapāņa? How far is it conclusive in proving that the reign of that ruler came to an end soon after the first quarter of the second century A.D.?

3. Discuss fully the relations of the Satrap families of the Deccan and

Gujarāt with the contemporary Scythian rulers of Northern India.

4. Do you accept the view that there were several Saka eras current during the ascendency of the Indo-Scythians? Who founded the Saka era which is current to-day?

(a) Comment on the following extracts:
(i) [Samvatsa]raye athasatatimaë 20 20 20 10 4 4 maharayasa mahamtasa [Mo]gasa Pa(nemasa) masasa divase pamchame.

(ii) Eta cha sarva śrāvita nigamasabhāya nibadha cha phalakavāre

charitratoti.

(iii) Rājno Chashtansa Ysāmotikaputrasa rājno Rudradāmasa Jayadāmaputrasa varshe dvipanchāśe 50 2.

(b) Write the passage (i) above in its original characters.

SECOND HALF

Examiner-Prof. ALTEKAR.

N.B.—THREE questions only are to be attempted, the last one, No. 5, being compulsory.

1. Discuss fully the reliability or otherwise of the belief that Samudra-

gupta's immediate successor was Chandragupta II.

2. What are the historical problems raised by the Bhitari seal of Kumāragupta II? How do you solve them in the light of other historical and epigraphical evidence?

3. Briefly point out the historical importance of the Damodarpur

copper-plate grants.

4. Comment on the following passages:-

(a) Daivaputra-Shahi-Shahanushahi-Saka-Murundaih.

(b) Mālava-gaņa-sthiti.

(c) Narapatibhujagānām mānadarpotphanānām pratikritigarudājāa[m]

nirvishī[m] chāvakartā. (d) Tasya putrah Prithivisheno Maharajadhiraja-éri-Kumaraguptasya mantri kumärämätyo'nantaram cha mahäbalädhikritah.

5. (a) What are the principal varieties of the Gupta alphabet? In what respects do they differ from one another?

(b) Write passages (c) and (d) in Question No. 4 above in their original characters.

(GROUP A)

(ARCHÆOLOGY.)

SEVENTH PAPER

(Numismatics.)

The questions are of equal value.

FIRST HALF

Examiner—MR. JITENDRANATH BANERJEE, M.A.

Only THREE questions are to be attempted

1. (a) Dicuss the important numismatic peculiarities of the old indigenous

copper coins (other than punch-marked) hailing from Avanti and Taxila.

(b) What are the principal features of the coins of the Odumbaras?

Have you anything to remark about Cunningham's account of these in his Coins of Ancient India?

2. 'Any attempt finally to arrange the kings (Indo-Bactrian) in dynastic lists by means of the types and legends which they use is destined to failure.'

(Gardner.) Do you agree?
3. (a) Discuss thoroughly the numismatic data which helped scholars to fix the sequence of succession and chronology of the early Indo-Scythic rulers.

(b) Did the Indo-Scythic and Indo-Parthian rulers issue any gold

coins?

- 4. (a) In what different ways has the weight standard of the gold coins of the early Kushanas been accounted for? Which, according to you, seems to be the most satisfactory account?
- (b) What conclusions, if any, can be drawn from a comparative study of some typical copper coins issued by Wema Kadphises on the one hand and the 'Nameless King' on the other?
 - 5. Write what you know about any four of the following:-

(a) Sophytes' Coins.

(b) Joint issues of Strato and Agathokleia.

(c) The Strategos Aspavarma.

(d) Billon coins of Gondophares, with the name Sasas.

(e) Coins bearing the name and titles of both Hermaios and Kujula Kadphises.

(f) Coins of Kadaphes.

SECOND HALF

Examiner-MR K. N. DIKSHIT, M.A.

Only THREE questions need be attempted from this half

1. (a) Discuss the evidence afforded by the Andhra and Western Kshatrapa coins as to the prevalence of Prakrit.

- (b) What conclusions can be drawn regarding the order of succession of the Western Kshatrapas from their coins?
- 2. (a) Classify the coins of the Andhras found in Andhradesa according to fabric, and discuss whether the variations are local or personal.
- (b) Illustrate the significance of the titles Kshatrapa and Mahakshatrapa as found on the coins of the Western Kshatrapas.
- 3. 'The gradual disappearance of meaningless elements is clearly a guide to the chronological arrangement of the specimens of each type.' Explain this with reference to Gupta and Kshatrapa coins.
- 4. (a) Can you explain the relative frequency of the gold, silver, and copper issues of the Guptas?
- (b) In which types of Gupta coins can you correlate the legends with the figures?
 - 5. Write descriptive and explanatory notes on:-
 - (1) Chutukadānanda coins.

(2) Ujjain symbol.
(3) Coins of Jīvadāman.
(4) Pratāpa type of Kumāragupta.

(5) King and Lakshmī type of Skandagupta.

(GROUP A)

(ARCHÆOLOGY.)

EIGHTH PAPER

The figures in the margin indicate full marks.

FIRST HALF

Examiners- { Prof. D. R. Bhandarkar, M.A., Ph.D. Mr. K. N. Dikshit, M.A.

Write an essay on any one of the following subjects:-

50

(1) Antiquity of Coinage in India.

(2) Foreign influence on Ancient Indian Coinage.

SECOND HALF

Examinere— { Prof. D. R. Bhandarkar, M.A., Ph.D. Mr. J. N. Banerjee, M.A.

(NUMISMATICS)

1. Describe any six of the types of coins reproduced on the 50 attached plate, and add your remarks on each:-

(GROUP A) (1)

(FINE ARTS.)

The questions are of equal value.

Not more than THREE questions to be attempted from each half

FIRST HALF

Examiner—Dr. H. C. RAYCHAUDHURI, M.A., Ph.D.

 'Early Indian art generally is realistic.' Elucidate.
 To what extent can the art of Gandhara be characterised as Hellenistic?

3. Point out the general characteristics of Gupta sculpture. Examine in this connection the statement that the Buddha figure in the early Gupta period 'exhibits a peculiarity rather common in the Gupta period, that of webbed fingers.'

4. 'The Kailasanatha is decorated with some of the boldest and finest sculpture compositions to be found in India.' Indicate the salient features

of these compositions.

5. Describe the frescoes at Elûrâ. How does the Elûrâ style compare with that of Ajanta?

SECOND HALF

Examiner-Dr. Kalidas Nag, M.A., D.LITT.

- 1. Write a note on the contribution of the Pallavas to the plastic art of India.
- 2. What part did the Rāmāyaṇa play in the history of sculpture of India and of Greater India?
 - 3. Discuss in broad outlines the characteristics—

either.

of (a) the South Indian Bronzes.

of (b) the Buddhist Paintings of Central Asia.

- 4. What do you mean by the expression 'Indonesian Art' and how does it stand with regard to the general evolution of Indian Art?
 - 5. Write an essay-

either.

on (a) the Art of the Pala period,

on (b) the Indian Applied Arts and Crafts.

(GROUP A) (1)

(FINE ARTS.)

SIXTH PAPER

(ICONOGRAPHY)

The questions are of equal value.

FIRST HALF

Examiner—Mr. Jitendranath Banerjee, M.A. Only THREE questions are to be attempted

1. Write what you know about the probable causes that contributed to the growth of iconoplastic art in India.

2. What do you understand by the term mudrā in relation to Indian iconography? Name and describe six such as are commonly to be met with in ancient and early medisvel Indian sculptures. Discuss, in this connection, the correct significance of each.

3. Write intelligent descriptive notes on the iconography of the fol-

lowing :-

(a) Bhita Linga (Banerjee and Rao);
(b) Deogarh Bhogasayanamurti (Rao) of Viṣṇu;
(c) Deogarh Jāana-dakṣināmurti (Rao) of Siva.

- 4. 'The study of Devi icons confirms the view that the characteristics of the Devi as an independent goddess and her Puranic associations may be noticed to have somewhat marked relations to the cult of Siva worship.' Elucidate.
- 5. In what manner has the Trimurti been represented in Brahmanical art? In what other way can the 'celebrated Trimurti' of the Elephanta cave be identified?

Which identification is correct according to you? Give reasons for your answer.

SECOND HALF

Examiner-Mr. N. K. Bhattashali, M.A.

Answer Question 3 and any TWO of the remaining four

- 1. Give an idea of the Mahayana Buddhist pantheon and the gradation of the various gods and goddesses in it.
- Give an account of the icons of Manju-śri under the following heads:-
- (i) Probable date of the entry of the conception into the Buddhist pantheon.

(ii) Historical character of the conception.

(iii) I'articular functions of the deity.

(iv) Distinguishing features.

- (v) A description of the variety called Arapachana.
- 3. Identify and describe the special features of the deities represented in the attached plates marked A, B, and C.

4. Study the image represented in the attached plate D, and write notes

on the following points:-

(i) The name of the icon represented.

(ii) The origin of the type.
(iii) Its earliest representation in scuplture.

(iv) The mahāpuruṣalakṣmaṇas promirent on the image.

(v) The Asana and the Mudrā.

(vi) The seven jewels.

- 5. Write a short essay on Hariti with the following points:-
- (i) Legends connected with her incorporation into the Buildhist pantheon and her special functions.

(ii) The principal types of her images.(iii) Antiquity of her images.

(iv) Her representations in many lands.



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(GROUP A) (1)

(FINE ARTS.)

SEVENTH PAPER

(ARCHITECTURE)

The questions are of equal value

FIRST HALF

Examiner-Mr. K. N. DIKSHIT, M.A.

Only THREE questions need be attempted from this half

1. In what way do you find the evolution of religious beliefs in India reflected in the architecture, and to what extent?

2. Discuss the development of the Sikhara in the Indo-Aryan or

Nagara style of architecture.

3. Describe the style of Medieval temple architecture in the Deccan and

bring out its peculiarities as compared with Orissan examples.

- 4. Trace the development of the brick-built temples of Northern India from the Gupta period onwards and show how far they followed the models of stone temples.
 - 5. Write what you know about the following:-
 - (1) Persepolitan capital.
 - (2) Nandyāvarta plan.
 - (3) Kirtimukha ornament
 - (4) Bamboo-line cornice.
 - (5) Mithuna panel.

SECOND HALF

Examiner—Dr. Stella Kramrisch, Ph.D.

Only THREE questions to be attempted from this half

- 1. Describe the remnants of Pāṭaliputra with regard—
 - (a) to town planning.

2. Which are the leading types of Buddhist buildings in Gandhara? In what way are they related to corresponding Indian types and what are their peculiarities?

8. Which of the later Gupta temples may, in certain features, be considered as prototypes of Burmese temples, such as Thatbinnyu, etc., in Pagan? What constitutes, on the other hand, the independent Burmese character of the latter?

4. Write a note on the relation of architecture and sculpture in the

temples of Orissa, from the 9th to the 13th century.

5. Trace the development of the Caitya hall with the help of structural and rock-cut examples.

GROUP A

(FINE ARTS)

EIGHTH PAPER

The questions are of equal value

Attempt only THREE questions from each half

FIRST HALF

Examiner—Dr. Rameschandra Majumdar, M.A., Ph.D.

1. 'The Amaravati rail is probably the most remarkable monument in India.' Discuss the above, bringing out the special features of the monument.

2. Describe one typical Chaitya cave at Ajanta, emphasising the special

features of this class of monument.

3. Trace the evolution of the more important types of pillars in South India from the earliest time up to the ninth century A.D.

4. Explain the chief characteristics of the Pallava style. Illustrate

your answer by reference to concrete examples.

5. Describe critically, and in chronological order, the chief ancient monuments at Nasik. What do you consider to be their chief artistic merits?

6. Discuss Fergusson's views about the merit of Dravidian architecture.

SECOND HALF

Examiner—Dr. Stella Kramrisch, Ph.D.

1. Write a note on the origin and evolution of the tower of shrines and

gateways in Drāvida temples.

2. Describe the temple buildings of Rajarajadeva Cola in Tanjore, and point out the stylistic changes that have taken place since the later Pallava period.

3. Discuss the various types of religious buildings in Polonnaruva and

determine the part played by the Cola element.

4. Which transformation did the South Indian capital of columns, etc.,

undergo from the Cola period to that of the Nāyyaks of Madurā.

5. Differentiate between the contemporary temples of Dhārwār and those of Mysore, and compare for this purpose the Dodda Basappa temple at Dambal with the Kesava temple at Somnathpur.

(GROUP III)

(SOCIAL AND CONSTITUTIONAL HISTORY)

FIFTH PAPER

The questions are of equal value Attempt only THREE questions from each half

FIRST HALF

Examiner-Dr. R. Shama Sastri, B.A., Ph.D.

1. Elucidate how the elastic social divisions of the Vedic and Buddhistic periods developed into rigid castes in post-Buddhistic India.

2. Give a brief account of the origin and position of slaves in ancient India.

8. (a) Explain the restriction on marriage based upon Sapinda or agnate blood-relationship.

(b) Substantiate that widow-marriage, prevalent in Vedic and Buddhistic India, was discontinued in Epic India.

4. Elucidate the difference between Aryan and Dravidian cultures.

5. Give an account of the various methods of the disposal of the dead in ancient India.

SECOND HALF

Examiner-Mr. HARANCHANDRA CHAKLADAR, M.A.

1. Discuss some of the principles and ideals that guided the evolution of social institutions in ancient India.

2. Discuss the position of the courtesan (ganikā) in ancient Indian

society, as revealed by Brahmanical and Buddhist literatures.

3. Can you point out any agreement between the domestic rites of the Indo-Aryans and those of any other branch of the Indo-European race?

4. Write full notes on any five of the following:—
Simantonnayana, Vrātyastoma, Guhya-nāman, Saptapadī, Chatur-

thīkarman, Agnihotra, Srāvaņa-karma.

5. Describe the relations between parents and children in ancient India. Do you notice any difference with the state of things in modern Europe?

(GROUP III)

(Social and Constitutional History)

SIXTH PAPER

Only THREE questions are to be answered from each half

The questions are of equal value

FIRST HALF

Examiner-Mr. NARAYANCHANDRA BANERIEE, M.A.

1. Sketch the economic condition of ancient India either in the Vedic

age or as described in the Jātakas.

2. What were the measures adopted by the Kautilyian State to solve the 'poverty problem?' Compare these with the measures taken by modern States.

'The Kautilyian State attempted to render the maximum amount of social service though ruled by an almost irresponsible monarch.' Explain.

- 4. Give a short history of the foreign trade of India from the third century B.C. to the third century A.D. with special reference to-
 - (a) the Indian mercantile marine.
 - (b) important Indian sea-ports. (c) the chief articles of export.
 - 5. Discuss the influence of guilds on Indian-
 - (a) industrial development.
 - (b) growth of town life.
- Discuss the part played by the village community in the socio-economic life of India.

SECOND HALF

Examiner-Dr. H. C. RAY, M.A., Ph.D.

1. Write a note on the main features of agrarian system of Hindu

India. Quote authorities in support of your statements.

In trying to show points of affinity between the environment of Kautilya and that of the Kameralists he expresses the opinion that these writers were studying the maxims of war-economy." Discuss this statement.

3. 'Hippalus was the pilot who, by observing the location of the ports and the conditions of the sea, first discovered how to lay his course straight across the ocean. Explain this passage with special reference to Indo-Roman trade in the first century A.D.

4. Write a brief note on the corporate activities in economic life of the ancient Indians.

5. Give an account of labour in ancient India. Did the State take any active steps to improve the conditions of slave labour?

(GROUP III)

(Social and Constitutional History)

SEVENTH PAPER

The questions are of equal value

Candidates are to answer only SIX questions THREE from each half

FIRST HALF

Examiner—Dr. H. C. RAYCHAUDHURI, M.A., Ph.D.

- 1. Give a picture of Indian political life of the Vedic period and mention the principal characteristics that distinguished it from that of the Epic period.
- 2. What was the relation of religion to politics in ancient India? Did the theocratic ideal ever gain ground in the country?

3. Discuss the constitutional position of the Hindu king according to

- the Arthasastra. What were the restrictions upon his power?

 4. Describe the methods of warfare as depicted in the Kautiliya, with special reference to-
 - (a) the establishment of military camps.

(b) divisions of the army, and

- (c) siege operations.
- 5. Write critical notes on-

(a) the political constitution of the Licchavis of Vaisali (b) the Government officials of the Maurya period,

and (c) the department of law and order as sketched in the Kautiliya.

SECOND HALF

Examiner-Mr. NARAYANCHANDRA BANERJEE, M.A.

6. What was the ideal of the State in Hindu India? Discuss the rival views and summarize the different theories about the origin of the State.

- 7. Explain Sadgunya, and show that the different aspects of interstate relation comprised in it are found in the relations of the States in modern times.
- 8. Estimate the amount of care to be taken by the ideal Hindu king in the welfare of his subjects, with special reference to the following:-

(a) the relief of the poor,

(b) the amelioration of the condition of the labouring classes,

(c) grants to education,

and (d) the prevention of adulteration of food-stuffs.

- 9. Was Kautilya a believer in the policy of aggression? Discuss his position with special reference to the passage 'sandhi-vigrahayos tulyāyām vrddhau sandhim upeyat.'
- 10. Enumerate the chief sources—Sanskrit texts, accounts of foreigners, etc.,—that should be utilized for giving a sketch of the machinery of administration in ancient India.

(GROUP III)

(Social and Constitutional History)

EIGHTH PAPER

The questions are of equal value

Attempt only THREE questions from each half

FIRST HALF

Examiner—Mr. HARANCHANDRA CHAKLADAR, M.A.

- 1. Write an essay on the Pre-Dravidian element in the Indian population.
- 2. Describe the Negrito population living at present in the Indian Empire. Are there any evidences of their existence in Eastern or Southern India?
- 3. Discuss the racial ethnology of the people speaking the Bengali language. With what peoples outside India do they show any physical affinity?

4. Attempt a systematic classification of the yellow-skinned people of

Asia and show which of the varieties are found in India.

5. Write notes on the ethnic character of any five of the following:-Kalmuk, Batak, Basque, Bell-beaker folk, Bushmen, Prospectors, Maya people, Eskimo.

SECOND HALF

Examiner-RAI BAHADUR SARATCHANDRA RAY, M.A.

 Discuss the relation of folklore to ethnology.
 Locate on a map of India and describe the various racial types found in the country. Criticise Risley's classification of Indian racial types.

8. Write a short history of the caste system of India and discuss the various theories of its origin and development.

4. Does promisquity in sexual relations occur anywhere in the world? Have you any evidence, literary or otherwise, of the existence of promisquity

in ancient India?

5. Discuss the origin, development, and effect of Hypergamy, Polyandry, and Polygyny in India. Give instances of such customs among the present population of India.

(Group D)

FIFTH PAPER

Examiners - { Mr. Haranchandra Chakladar, M.A. Mr. Narendrakumar Majumdar, M.A.

(Indian Astronomy and Mathematics)

Candidates are permitted to attempt not more than six questions

The questions are of equal value

1. Give the different approximations to the square foot of 2, as given in the various Sulba Sūtras.

Estimate the degree of approximation of the expression given by Apastamba and Baudhāyana for the square root of 2. Explain geometrically how this expression may be evolved.

2. Explain the rules for squaring the circle and circling the square, as found in the Sulba Sūtras. Compare and contrast with later approximations, and trace the history up to the time of Bhā-karāchāryya.

3. Give three different methods for the construction of the Darsa-paurnamāsikī Vedī according to Mānava Sulba Sūtram. Comment on any

peculiarity you notice in any of these methods.

4. Explain Apastamba's general rule for the increase in the area of a square when the side is increased. Illustrate by examples from Sulba Sütras.

5. Construct the "săratninrâdesa-saptavidha-agni" according to Apastamba. What inference do vou draw from the prescription of different arrangements of bricks in the consecutive layers?

6. Construct the "vakra-pakṣa-vyasta-puccha syenacit" according to

Baudhāyana.

- 7. Write a short note on the bricks employed in the construction of Agnis in the Sulba Sütras. What inferences do you draw about the architecture of the time?
- 8. Describe the construction of the "kanka-cit" according to Baudhāyana.
- 9. Give the construction of the "sāra-ratha-cakra-cit" according to Baudhāyana and explain its importance in the history of Indian geometry.
- 10. Give a construction of the "parimandala kurmacit" and compare with that of "parimandala dronacit."

(Group D)

SIXTH PAPER (ASTRONOMY)

The questions are of equal value

Candidates are permitted to attempt FOUR questions from EACH half

FIRST HALF

Examiner—DR. B. B. DUTT, D.Sc.

1. Explain in detail Aryabhaţa's scheme of alphabetic notation, illustrate it by explaining the mea ing of नवागिय गुक्क and of दक्ष विस्त. Give also the Greek alphabet notation. Comp re the two systems on the following points: (a) the mode of expressing higher orders of numerals, and (b) use in practical calculations.

2. Find the Indian sines of 30°, 60°, 7° 30′ for a radius of 7,200 units by Aryabhata's method. 15°, 75°. and

3. Give Aryabhata's rule for finding the volume of a sphere pointing out the amount of error in it. Who was the first Indian mathematician to give the correct rule? Can you cite any evidence that even up to the time of Prithūdaka (864 A.D.), the wrong rule of Aryabhata was taken as correct? Explain Bhaskara's method of finding the volume of a sphere.

4. Trace the history of the use of a symbol for zero and the decimal notation in Indian literature, both mathematical and non-mathematical, from the carliest times up to the time of Aryabhata. What is the date of the earliest epigraphic use of this system? Why was this notation so late in

adoption in Indian epigraphy?

5. For a circle of radius 10,000, find, after Aryabhata, the perimeter of an inscribed regular dodecagon. Compare the values of π that you get from the dodecagon with that from the hexagon.

6. Give both internal and external evidences to prove that section

Ganita is an integral part of the Aryabhatiyam.

SECOND HALF

Examiner—Mr. Prabodhchandra Sengupta, M.A.

1. Trace fully the development from Brahmagupta to Ganesa of the following arithmetical operations:-

Addition, Subtraction, Multiplication, squaring and finding the

Square and Cube roots.

Do you consider Ganesa's method of multiplication in any way

superior to the methods of Brahmagupta and Sridhara?

2. Give an account, with methods of derivation, of the rules for constructing rational right-angled triangles from Brahmagupta and Bhaskara.

3. Enunciate, after Bhaskara, the "to lie rule" for the solution of the equation $Nx^2+1=y^2$. Explain how this was an easy deduction from Brahmagupta s Vairabadha rule.

Solve by the "cyclic rule" the equation

$$48x^2+1=y^2$$
.

4. State and explain Brahmagupte's rule for the diagonals of a cyclic quadrilateral and also his rule for the circum-radius of a triangle.

5. Solve separately, by using the methods of Brahmagupta and

Bhaskara, the equation

- 6. Solve after Bhaskara:---
 - (i) $(x+y)^2+(x+y)^3=2(x^3+y^3)$.
 - (ii) $6x^3 + 2x = y^3$.
- 7. State, illustrate, and explain Caturveda's rule for finding the sum of a series in G. P. When did he flourish?

(GROUP D)

SEVENTH PAPER

(ASTRONOMY)

The questions are of equal value

Only SIX questions are to be attempted, out of which Four questions must be selected from the FIRST half and TWO from the SECOND half

FIRST HALF

Examiner-Mr. Prabodechandra Sengupta, M.A.

1. Prove that the number of risings of the asterisms, diminished by the number of the revolutions of each planet respectively, gives the number of risings of the planets in an Age.

What are intercalary months, and omitted lunar days?

2. Explain the method of determining the longitude of any place as given in the Surya Siddhanta.

What was the prime meridian from which longitudes were calculated

by the Hindu astronomers?

3. Prove that the equation of the centre is given by the following formula:—

$$\sin V_{0} = \frac{3438 \times \frac{C_{m} \sin k}{21600}}{\sqrt{\left\{ \left(\frac{C_{m} \sin k}{21600} \right)^{2} + \left(3438 + \frac{C_{m} \cos k}{21600} \right)^{8} \right\}}},$$

where k is the kendra and C_{∞} the rectified periphery.

4. Explain the method of finding the ascensional difference of any planet

as given in the following verse:-

Multiply the sine of declination by the equinoctial shadow, and divide by twelve: the result is the earth-sine; this, multiplied by radius and divided by the day-radius, gives the sine of the ascensional difference.

5. Give the methods of determining the hypotenuse of the east and west shadow cast by the sun at the moment when it is upon the prime vertical.

6. Write a short note on the planetary theory of the Hindu astronomers and discuss the nature of the fundamental elements upon which the astronomical system of the Hindus is founded.

SECOND HALF

Examiner-Pandit Babua Misra.

1. वि नाम युगम् ? को नाम क्ष्य: ? यहाद्यानयने किसनयो: प्रयं जनस् ? युमसम्बन्धिनां बाल्यसम्बन्धिनां वा यहभगवानां क्षयमनगतिर्भवितुमईतीति सीपपत्तिर्भ न्याक्येयम् ।

- 2. की नामार्थीय: ? स च स्थैसिडान्तरीत्या कश्यमानीयने ? किं च तत्प्रयोजनिमिति सपरिकारं प्रदर्भगीयम ।
- 3. ससकचानकते ससगवा मर्वटैव पूर्वाभिमुखं गक्कतां यहायां बन्ना गति: का नान ? साच स्र्येनिद्वानाक्ष्मा कथमपपदान ? का वा तव युक्तिरिति काट खिख्यताम्।
- 4. 'तथिनस्रवयोगा: के नाम , एवामानयन सर्वसिद्धानीक्या कथ भवतीत्वस्र रीतिकपप्रशिष खिळ्येताम ।
- 5. लम्बागानामचायाना च जानं सर्यसिकान्तीक्या कया रीत्या भवितमहैति १ तयोज्ञानि कायादर्भनेन रवे राख्यादिभागः कथमानीयने १ उपपादनीयोऽयं विषयः।
- 6. चन्द्रमूर्ययद्रवयी: की हेत्: ? सूर्यसिंहान्तीक्ता तत्वरिमार्व समयादिकं 🗢 कचमवगयते ? कच तद्विषतपत्याः ? सर्वे धापपत्तिक' विवेचनीयम ।

(GROUP D)

EIGHTH PAPER

(Indian Astronomy and Mathematics)

The questions are of equal value

Candidates are permitted to attempt not more than THREE questions from EACH half

FIRST HALF

Examiner-Mr. NARENDRAKUMAR MAJUMDAR, M.A.

- I. Compare and contrast the methods of division of the Ecliptic according to Vedānga Jyotişa, Süryya-pra;ñapti, Aryyabhaṭīyam, and modern astronomy.

 What conclusions do you draw?
- 2. State and explain the elements of the Vedanga Jyotisa. Do they differ from the elements of the Süryya-prajfiapti, and if so, in what?

Comment on the rules giving the solsticial tithis and naksatras in a yuga of 5 years.

3. Give a short history of the introduction of Hindu-Arabic numerals

with place value into Europe.

4. Write a short note on the peculiarities of the Bakhshali Mathematics.

Give the rule for approximating to the square-root of a number which is not a perfect square, and apply this rule to find approximately the square-root of 889.

5. Give and explain the rules for the determination of the eclipses ac-

cording to Aryyabhata.

6. Explain Aryyabhata's theory for the determination of the true longi-

SECOND HALF

Examiner-Mr. Prabodhchandra Sengupta, M.A.

1. Give an account of the Indian pre-spicyclic astronomy as given in the Vasistha Siddhanta of the Panca-siddhantika. In what relation does it stand in the Jyotisha Vedanga and Aryabhata types of Indian astronomy?

2. If the radius be 100,000, the Indian sine of 15° is 25,882. From this calculate the Indian sines 7°½ and 3°½ respectively. Trace the history of the method you employ.
3. Define the terms Hrti, Antyš, Cheda, Samkutala, and Samku, as

used in Indian astronomy.

Obtain the "time altitude" equation in the Indian form and reduce it to the modern form. State evidences with dates to prove that the Hindus were the first to find this equation.

4. State Ptolemy's rule of "six quantities" and establish the followang equations of his for calculating the sun's right ascension and declination :-

(i)
$$R \sin \delta = \frac{R \sin l \times R \sin w}{R}$$

and (ii)
$$R \sin AR = \frac{R \cos w \times R \times R \sin \delta}{R \sin w \times R \cos \delta}$$
,

where w is the obliquity of the ecliptic, l the sun's celestical longitude, &

and AR his corresponding declination and right ascension.

Give the standard forms of the above equations in Indian astronomy and deduce them by its methods. What difference do you notice in the form of the second equation in the Indian and Greek systems? Which do you think is the more convenient?

5. Explain the following stanza from the Aryabhatīyam :-

चपमञ्जलस्य चम्द्रः पाताद् शत्यभरेच दिच्यतः। गुरुकुजकीषार्थेवं शीष्ट्रीचेनापि वधग्रकी ॥

What inference do you make as to the idea of planetary motion in Indian astronomy?

6. Enunciate and explain after Bhāskara the method of finding the instantaneous daily motion of a planet affected by the inequality of conjunction. Trace the history of the solution of this problem from Brahmagupta to Bhāskara.

MENTAL AND MORAL PHILOSOPHY

FIRST PAPER

(HISTORY OF ANCIENT AND MEDIAEVAL EUROPEAN PHILOSOPHY)

The questions are of equal value

FIRST HALF

Examiner-Mr. K. C. Mukherjeb, M.A.

Candidates are recommended to attempt only THREE questions.

1. 'Anaxagoras argued from the genesis of unlikes from each other that they were already in each other.' (*Physics*).

Do you think Anaxagoras' position is philosophically sound?

2. 'There is a third kind of madness, which is a possession of the

Muses; this enters into a delicate and virgin soul, and there inspiring frenzy awakens lyric and all other numbers.' (Plato).

Discuss the Platonic (or Socratic?) doctrine of 'inspired madness.'

3. Do you attach any philosophical importance to the distinction made by Aristotle between what he calls 'coming to be' and 'alteration'?

4. 'If we only imagine the God of Aristotle in a sort of refraction of himself, or simply inclining toward the world, at once the Platonic Ideas are seen to pour themselves out of him, as if they were involved in the unity of his essence.' Examine this view.

5. The final cause produces motion by being loved, and by that which it moves, it moves all other things.' (Aristotle.) Discuss.

6. The Good is gentle and friendly and tender, and we have it present when we but will. Beauty is all violence and stupefaction; its pleasure is spoiled with pain, and it even draws the thoughtless away from the Good as some attraction will lure the child from the father's side.' (Plotinus).

Examine the validity of the distinction Plotinus makes between the

Good and the Beautiful.

7. 'The ceaseless forward movement of Life brings with it unending

Time.'
'Eternity is Life in repose, unchanging, self-identical, always end-

Is it possible to distinguish Time from Eternity?

8. Do you think the philosophy of Thomas Aquinas is a force in

contemporary thought?

9. Examine the spiritual ideal of St. Augustine as set forth in 'The City of God.'

SECOND HALF

(PLATO AND PLATO'S 'REPUBLIC.')

Examiner-Mr. J. R. Banerjea, M.A.

N.B.—Answer ANY THREE questions.

In what respects is Plato's philosophy an extension of, and ar advance on, Socratic philosophy? Fully discuss this question.
 What are Ideas in the Platonic sense? What are their character-

istics? Explain the three different ways in which he defines his Idea of the Good. What is the relation of this Idea to God?

O+,

What are the proofs of the immortality of the soul according to Plato? Examine them. Did he believe in the doctrine of Transmigration of souls?

3. What qualities must the Guardians possess according to Plate in the Republic? What are the characteristics of the true philosophic disposition according to him, as stated in the Republic? How does he establish there that the affairs of men will never be perfectly ordered unless philosophers be kings, or kings philosophers? Examine this view of Plato.

4. Trace, after Plato in the Republic, the origin and describe the

character of the four inferior types of men and States.

Or.

Discuss, after Plato in the Republic, the organic idea of the State and explain, in detail, all the implications of his opposition to Individualism.

How far is his position tenable?

5. 'Hence, if this be true, we cannot avoid adopting the belief, that the real nature of education is at variance with the account given of it by certain of its professors, who pretend.....to infuse into the mind a knowledge of which it was destitute.' Fully develop the thoughts embodied in this extract from the Republic and examine them.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-MR. A. C. DAS. M.A.

Candidates are to answer ANY THREE of the following questions.

1. Give a critical account of Descartes' psychology, and show how he anticipated some school of psychology, of modern times, with some limitations.

How does Descartes' view of the relation between mind and body interfere with his ethical view of life? Fully discuss the problem.

2. Critically examine, with historical references, Spinoza's theory of

attributes.

Or.

Give an account of Spinoza's theory of knowledge, and show its

affinity with that of Leibnitz, if there be any.
3. 'Locke's philosophy is nothing but "Cartesianism," built on an empirical foundation.' Fully discuss.

Or.

Show how Locke anticipated Kant in his philosophical outlook, and show also in what way he differed from him.

4. 'Locke, by his empirical attitude, paved the path to Hume's

scepticism.' How do you justify this statement?

5. 'Esse est percipi.' Critically discuss this and show if Berkeley is justified in his passage from human consciousness to Divine consciousness,

on the strength of the principle.

6. Do you find, in any way, in Leibnitz the Kantian distinction between the world of noumens and that of phenomens? Fully bring out the affinity and the difference, in the outlook of both the thinkers, on the point.

SECOND HALF

Examiner-DR. H. L. HALDAR, M.A., PR.D.

1. 'The whole difficulty of Kant arises from his attempt to build his theory which virtually overcomes dualism upon a basis of dualism. Elaborate and examine this view.

07.

Compare Kant's conception of nature with that of common sense dualism and give a critical estimate of it.

2. Give a critical account of Kant's theory of the good will.

Or.

Explain and examine Kant's view of the Beautiful.

3. Explain, as clearly as you can, Hegel's conception of the relation between mind and the world.

Compare Kant's view of the categories with that of Hegel.

THIRD PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. A. N. MUKHERJEB, M.A., Ph.D.

N.B .- Attempt ANY THREE questions.

1. Explain the Bauddha doctrine of Impermanence, and compare it with the views of Heraclitus and Bergson.

2. Explain the view of the external world as held by the Yogachara

school of Buddhism and compare it with that of Sankara.

3. Consider how far the conceptions of the Purusha and the Prakriti of the Sankhya are respectively reducible to those of the Atma and the Maya of the Vedanta.

4. How does the Bhagavatgita reconcile the respective claims of Karma, Jfiāna, and Bhakti? Compare the Bhaktiyoga of the Gita with Spinoza's intellectual love of God.

5. Explain how the need for Release (Moksha) arises in Indian Philosophy. How is it conceived by the different systems of Indian Thought?

- 6. Examine critically how far the Sankara Vedanta is open to the following charges:—
 - (1) Irreligion, (2) indifference to moral distinctions, and (3) solipsism.

SECOND HALF

Examiner-Mr. S. C. CHATTERJEE, M.A.

Answer ANY THREE questions.

1. What is the nature of perception as a method of knowledge (pramāṇa)? Explain and examine the distinction between external and internal (bāhya and mānasa), ordinary and extraordinary (laukika and alaukika) perceptions.

2. Explain testimony (sabda) as a source of knowledge and consider the question of its independence from the standpoint of Western philosophy.

3. Briefly explain and illustrate the Vaisceika categories of reality (padartha).

4. Compare and criticise the position of the Sankhya and Yoga systems

with regard to the existence and attributes of God.

5. What are the points at issue between Sanikars and Rāmānuja with regard to the doctrine of Māyā as an explanatory principle of the phenomenal world? Give your own estimate of their positions with reference to parallel views from Western philosophy.

FOURTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Ray Bahadur K. C. Bhattacharyya, M.A.

Answer ANY THREE questions.

1. The subject as the knower or the knowing act cannot be known at least in the sense in which the object is known. Examine the view.

2. How is meaning as the content of thought related to fact as the content of belief?

8. The logical universal is a timeless fact and not a mere meaning.

Discuss the statement.

4. Relation presupposes facts to be related but a fact is constituted

by its relations. Discuss the puzzle.

5. Present in a connected form the different senses in which the word intuition is used in epistemology.

SECOND HALF

Examiner-DR. S. K. DAS, M.A., PH.D.

Answer ANY THREE questions.

1. 'I do not deny that reality is an object of thought; I deny that it is barely and merely so.' Expound clearly the view set forth here, and indicate what appears to you to be the most cogent view regarding the relation between Thought and Reality.

2. How would you justify the contention that 'the whole notion of correspondence, however useful as a working hypothesis, breaks down if regarded as an adequate conception of truth '? Wherein consists, after all,

the strength of the correspondence-notion?

3. Discuss fully the virtues as well as the extravagances of the Pragmatist theory of truth with specific reference to the question of workability or practical efficiency (arthakriyākāritvam) recognised as a test of truth in the different schools of philosophical thought, Western as well as Eastern.

4. 'Truth in its essential nature is that systematic coherence which is the character of a significant whole.' Discuss this theory of truth, and examine its importance from the standpoint of the Svatahprāmānyavāda.

5. Institute a critical comparison between the leading theories of Error in European as well as Indian philosophy, and expound the view that affords a satisfactory explanation of error.

FIFTH PAPER

(THEORY OF KNOWLEDGE AND METAPHYSICS)

The questions are of equal value

Attempt three questions from BACH half.

FIRST HALF

Examiner-Mr. Anukulchandra Mukherjee, M.A.

1. 'Reality is a single and unalterable system of relations.

'Reality is a single supra-relational experience.'

Indicate briefly the considerations which lend support to these

apparently conflicting conceptions of the real. Are they reconcilable?

2. It has been emphatically held that though there is time in the Absolute, yet the Absolute is not in time. Discuss this position in the

light of the doctrine of reality as a never-ending process of creative evolution.

3. 'The individuals are simply pipes through which the Absolute pours itself.' Consider how far this charge can be successfully met by an absolution, indicating at the same time your own views on the status of the

individual self in the structure of the

4. State clearly the relation between Metaphysics and Psychology, and illustrate your views by distinguishing between the psychological and the metaphysical approach to the study of mind.

5. 'The common appearances of our lives—of material things of conduct and of institutions—all carry us a certain way, and to pronounce them

illusory would be a fool'sh exaggeration.' (Bosonquet).

Expound this remark, showing how far it is a valid charge against the doctrine of Maya, and contrasting the status of the 'common appearances' in the Vedantic philosophy with that in Western absolutism.

SECOND HALF

Examiner-MR. B. K. MALLIK, M.A., B.Sc.

1. Could you draw a distinction between modern and contemporary Philosophy? In what precise way has contemporary thought advanced the theory of Knowledge? Discuss Realism.

2. How would you place Bergson as an original philosopher? Was he consistent in his theory of Duration?

3. How would Bergson's Elan-vital compare with the Absolute of the Idealists? Could you detect a Dialectic in the creative evolution of Bergson?

4. Discuss the contribution of Oxford on Absolute Idealism with special reference to Green, Bradley, and Bosanquet. Do you think Oxford really made an advance on Hegel?

5. Has Russel got a philosophy which is strictly his own? Could you

call him a Realist, a Behaviourist, and a Pragmatist?

SIXTH PAPER

(Essay)

Examiner-RAI BAHADUR K. C. BHATTACHARYYA, M.A.

Write an essay on one of the following subjects:-

(1) 'With Plato Philosophy exhibited an idealistic antithesis to the given actuality, an antithes's which demanded the supplement of a more realistic theory of things. This was supplied by Aristotle.'

(2) Pragmatism—its history, different types, and examination.

(3) Recent contributions to Logic and their value.

(4) The Idealism of T. H. Green. (5) The Neo-Realistic Movement.

(6) The Samkhya system and Vedantism—their contrast and possible reconciliation.

(7) Recent Psychological Schools.

(8) The doctrine of the soul in Hindu and Buddhistic philosophies.

(9) The problem of values.

(10) Mysticism—its different types and value for religion.

(Psychology)

FIRST PAPER

(GENERAL AND PHYSIOLOGICAL PSYCHOLOGY)

The questions are of equal value

Not more than THREE questions are to be attempted from EACH half.

FIRST HALF

Examiner-Mr. HARIDAS BHATTACHARYYA, M.A.

- 1. Give a diagrammatic representation of the structure of the eye, andicating briefly the function of each of its parts in relation to vision.
- Locate and distinguish between the sensory and the association centres of the human brain, and indicate the function of each in the elaboration of mental life.
- 3. Give the most plausible physiological explanation of any four of the following:-

Synaesthesia, negative after-image, tonal fusion, muscular fatigue, habit-formation, reflex action.

- 4. Describe under what physiological condition (1) two retinal images may combine to give the idea of a single object, (2) two sound sensations may produce beats, and (3) the taste of an object may be modified.
- Discuss the value of any attempt that has been recently made to explain higher mental processes in terms of physiology.

04.

Give an idea of the contribution of any two of the following writers to physiological psychology:-

Helmholtz, Wundt, McDougall, Watson.

SECOND HALF

. Examiner-Dr. N. N. SENGUPTA, M.A., Ph.D.

1. Compare the conception of consciousness as a stream (James) with that maintained by Structural Psychology.

2. Discuss the relative value of the following theories of perception: (i) perception as a product of apperceptive function, (ii) perception as a Gestalt or configuration, (iii) perception as a product of association of

sensory elements.
3. Discuss the relative merit of the following hypotheses: (i) Memory as an act of remembrance (MacDougall); (ii) Memory as a process of reproduction of past images; (iii) Memory as a process of organisation of past experiences in terms of conation.

4. Discuss how far the structural theory of attention explains the facts of attentional consciousness.

5. Give a critical estimate of the Structural, Functional, and Behaviouristic accounts of will.

SECOND PAPER

The questions are of equal value

Only THREE questions are to be attempted from BACH half.

FIRST HALE

Examiner-Mr. Haripada Maiti, M.A.

- 1. Trace briefly the origin of the Gestalt and the Behaviouristic school of Psychology.
 - Give a historical outline of the theory of Psycho-physical Parallelism.
 Discuss the psychological problem of Perception, with special refer-

ence to the theories of James, Wundt, Stout, and Köhler.

- 4. Compare the Structuralist and the Functionalist standpoint. Illustrate your answer by reference to two typical representatives of the two standpoints.
- 5. Give an account of recent developments in the theories of the Subconscious.

SECOND HALF

Examiner—Dr. Suhritchandra Mitra, M.A., Ph.D.

- 1. Discuss the fundamental differences between psychiatry and psychoanalysis.
- 2. How do you explain the phenomenon of Hypnosis? Discuss specially McDougall's theory of Hypnotism.
 - 3. Write a short essay on the Interpretation of Dreams.
- 4. Discuss the views of Jung, Adler, and Freud on the causation of neurosis.

Or.

Enumerate your reasons for believing in the evolution of mind in

animals. Give some concrete illustrations.

5. Indicate the relative influence of Instinct and Intelligence animal behaviours.

(Logic)

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. Susilkumar Maitra, M.A., Ph.D.

Answer ANY THREE

1. Is the form of knowledge separable from its matter? Would you accept the view that 'Logic is a formal science. . . it deals with the form,' and not with the matter of knowledge '? In what sense would it be legitimate to speak of Logic as 'the science of sciences'?

2. Examine the following:-

(a) Judgment consists in putting two ideas together.

(b) Judgment consists in comparing two or more things.

3. Discuss the question whether Negation presupposes Affirmation.

Does Negation affect the copula? What is meant by Double Negation? How is Double Negation related to Affirmation?

4. Analyse the following negative judgments:-

- (a) Red is not blue.
- (b) Lead is not elastic.
- (c) I have not shouted.

(d) The fire does not burn.(e) X is not going home.

5. Which is the primary meaning of a name, its denotation or its connotation? How would you express the relation between denotation and connotation, and why? Discuss the question whether Proper Names should be regarded as non-connotative.

SECOND HALF

Examiner-Mr. Suryyanarayan Sastri.

Answer ANY THREE questions.

1. Explain what you consider to be the essence of Inference, with the requirement of (a) novelty. (b) three terms. What special reference to the requirement of (a) novelty. (b) three terms. do you understand by the Paradox of Inference? Can you get over it?

2. 'Complete Enumeration has been operative as a false ideal both in the doctrine of Induction and in the doctrine of the Syllogism.' Discuss. State briefly the value, if any, of Computation.

8. Give a brief account of Bradley's criticism of (a) the Syllogism,

and (b) Mill's canons of Induction.
4. 'It (Induction) is, consequently, like Comparison or Recognition, like Observation or Experiment, a transient and external characteristic of inference.' Discuss, explaining what you consider to be the relation of Induction to other inference.

5. Explain and discuss the significance of the term 'asthetic necessity.'

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. P. D. SASTRI, M.A., PH.D.

Answer ANY THREE questions.

1. Critically inquire into the validity of the main grounds on which Bradley sets down the Inductive Logic as a flasco. State your own views as well.

2. Bring out the distinction on which the relation of necessity to experience is based. Examine the views of Whewell and Mill as well.

8. Clearly define the object and scope of Scientific Induction. In what sense could it be viewed as a contradiction in terms? How does it stand in relation to the verification of hypothesis?

4. Make out a case for 'reasoning directly from particulars to particulars' and criticise the position after Bradley and Bosanquet.
5. What is meant by 'Postulates of Knowledge'?

Clearly show the sense in which the Law of Contradiction is (a) a truism, (b) false, and (c) a genuine law of thought. What is the nature of Reality as revealed by the Laws of Thought?

SECOND HALF

Examiner-DR. B. K. MALLIK, M.A., B.Sc.

Attempt ANY THREE questions.

1. What is the function of Thought? Does it classify Experience or generate it? Discuss Plato, Kant, and Hegel.

2. What is the function of the Dialecti? Does it supply a proof or

constitute reality? Would you identify a philosophy with the Dislectic.

3. Is there any meaning in the phrase 'Imperative of Thought'? Do we control by thought any more than we control by choice? What are necessities of thought? Do they really produce absolute certainty?

4. How would you judge the importance of relations? Is the distinc-

tion between the External and the Internal relations at all significant?

5. Is judgment a valid and consistent fact? Does the subject of Proposition bear a predicate or function as an event? What has happened to Predication in the light of modern work?

(ETHICS)

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner-RAI K. N. MITRA, BAHADUR, M.A.

Attempt ANY THREE

1. Discuss Green's conception of Freedom of the Will and examine in this connection the validity of Sidgwick's criticism that it is equivalent to pure determinism.

Or.

What is Ethical Hedonism as distinguished from Psychological Hedonism? Can Hedonism as an ethical theory be justified on psychological grounds?

2. Discuss the question of moral values. Is there any absolute moral

value? If so, how do you explain the conflict of ultimate ends?

8. 'With Kant, as with Plato, it is the requirements of morality that

lead to the hypothesis of the reality of an ideal world.' Explain.

Is Kant's moral postulate incompatible with a sensible or phenomenal world?

Give Wundt's classification of norms. How does this classification help in determining the moral worth of motives or ends?

SECOND HALF

Examiner-Dr. Susilkumar Maitra, M.A., Ph.D.

Answer ANY

1. Distinguish between moral progress and moral retrogression. Discuss the view that 'while science grows, morality is stationary.'

2. What do you consider to be the chief differences between ancient

and modern ethics? How would you account for these differences?

3. What are the different stages of the moral development of the individual? How is the moral development of the individual related to that of the race?

4. Discuss the question of conflict of loyalties, with special reference

to the relation between a State and its citizens.

5. Is the institution of Private Property morally defensible? Discuss the question with special reference to the problem of the relation between capital and labour.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. M. N. SARKAR, M.A., Ph.D.

Answer ANY THREE questions.

1. How do you distinguish Mechanical Causality from Psychical Causality? Indicate the bearing of this distinction on ethical problems.

Can Ethics be based upon Metaphysics '? Examine in this con-

nection the views of Green, Wundt, and Moore.

3. Explain Kant's conception of the Moral Law, and show bow it

stands related to the conception of Humanity as kingdom of ends.

4. Explain Wundt's Law of Heterogony of Ends and show how it does

help the evolution of the Cosmic Ends (ends of humanity) in Moral Life.

5. How is the individual related to society? Is perfection of moral life possible in complete detachment from society? Reproduce the views of Green and Wundt.

SECOND HALF

Examiner—MR. N. C. GANGULI, M.A.

Answer ANY THREE questions.

1. Point out the subject-matter of Social Philosophy. Set forth clearly its relation to Ethics and Politics.

2. Examine the nature of Society from the standpoint of its origin.

Notice the Eastern and the Western views of it.

8. Explicate the significance of association in the social structure. Analyse it into its principal modes.

4. Trace the growth of marriage as an institution. Show its import-

ance in the advance of civilization.

5. What is meant by social ideals? Make, after Mackensie, a critical estimate of them.

(PHILOSOPHY OF RELIGION)

FIRST PAPER

The questions are of equal value

Only THREE questions are to be attempted from EACH half.

FIRST HALF

Examiner-DR. S. K. DAS, M.A., PH.D.

1. Estimate the importance of the psychological approach to the pro-

- blems of Religion. What function would you assign to Philosophy of Religion as distinguished from the Psychology of Religion?

 2. Examine the position that 'Religion contains the ideal ground of Morality and Morality the real manifestation of Religion.' Review critically as well as historically the relation between Ethics and Religion, and indicate how far it is legitimate to claim that 'Ethics must be treated before Religion.
- 3. Determine the question of the relative primacy of one or the other of the elements of cognition and will as deduced from our analysis of the Religious Consciousness. How would you balance the respective claims of each in religious life?

4. What is Mysticiam? Examine its virtues as well as extravagances

from the standnoint of Religion.

5. Expound the nature of religious authority and show to what extent tradition is serviceable here. Is tradition necessarily subversive of individual freedom in matters pertaining to religion?

SECOND HALF

Examiner-Dr. S. K. DAS, M.A., PH.D.

1. What is, in your opinion, the essence of the idea of God? Indicate the main stages in the development of the idea of God, with special reference to the contributions of the nineteenth century thinking.

2. What do proofs for the existence of God really prove? Show that 'a proof of God must start not from the fact of purposive action in things.

which is doubtful, but of bare action which is not."

3. Examine the probative value of the cosmological proof of God's existence, and in particular the moral form of it which argues from badness of the world to a good God. What is, after all, the religious motive of this proof?

4. Attempt a critical survey of the attributes of God consistent with the unity of the Divine nature. Develop in this connection the Indian distinction between Snarfipalakshanas (essential attributes) and Tatasthalakshanas

(non essential attributes) of the Godhead.

5. 'For me a person is finite or is meaningless.' (Bradley).
'Only the Infinite is completely personal.' (Lotze).

Expound fully these two typical view-points with reference to the problem of personality of God, and examine the validity of the distinction between Absolute and God.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. S. C. Chatterji, M.A.

Answer ANY THREE questions.

1. What do you understand by eternity? How is it related to change

and time in general?

2. In what sense can we speak of the world's creation? How is the Creator related to the created world in general and finite spirits in particular?

3. Explain and examine the concept of evolution as a cosmic principle,

and discuss the main theories of evolution.

4. Critically consider the relative merits of theism and pantheism from the standpoint of logic and metaphysics, moral and religious experience.

5. Discuss the view expressed in the statement: 'Experience testifies to continuity of nature and absence of miracles.'

SECOND HALF

Examiner-MR. N. C. GANGULI, M.A.

Answer ANY THREE questions.

1. Elucidate 'the mystery of personality' and explain it on the lines of Pringle-Pattison.

2. Expound the law of karma with reasons for and against it. Indicate

whether it allows any room for God's omnipotence.

3. Is eternal life to be equated with 'merging in the Absolute of Monism ' or ' living with the loving God of Theism '? Support your answer with arguments.

Evil, which is said to be simply good in the wrong place, dis-

appears, as such, in the Absolute.' Criticise this statement.

5. Is divine sovereignty limited by human freedom and natural laws? Discuss the point at issue.

(Special Branch-Indian Philosophy)

(GROUP III)

(VEDANTA-TEXT)

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner—Mr. Kokileswar Bhattacharyya, M.A.

- 1. Answer the following:—
- (a) Name some of the prominent writers with their works, Sankara-school of Vedanta.

- (b) Show what interrelation, if any, exists between the Upanishads and the Brahma-sutras.
- (c) Name some of the founders of different schools of Vedanta with a brief notice of their views.
- 2. Write a short essay giving the fundamental teaching of Sankara-Vedanta.
- 3. Give the central idea contained in the commentary of Sankara on any two of the following sutras:—
 - (a) "अन्तरतद्वामीपवेशात"।
 - (ह) "श्रुतेस्तुं शब्दमूछत्वात्"।
 - (c) "धुम्वाधायतनं स्वशन्दात्"।
 - (त) "रचनानुपपत्तेश्च नानुमानम्"।

Or,

Explain fully any three of the following extracts:-

- (a) यस यद्ध्यासस्तत्कृतेन दो रेग गुणेन वा अणुमासेगापि न संबध्यते ।
- (४) अतो न पुरुषध्यापारतन्त्रा ब्रह्मविद्या । किं तर्हि १ प्रत्यक्षादिप्रमाण-विषयवस्तुज्ञानवत् वस्तुतन्त्रा ।
 - (c) न हि अविद्याकल्पितेन रूपभेदेन सावयवं वस्तु सम्पद्यते ।
 - (d) न असी उपसृचमाना पृथ्वीवस्था उत्तरावस्थायाः कारगमभ्युपगम्यते ।
 - (e) तसाम्र प्रतिपत्तिविधिविषयतया शास्त्रप्रमाणकत्वं ब्रह्मणः।

Or.

4. What is বিশ্বানবাই? State some of the reasons by which the Vijnana-vadins seek to prove their theory. Give also the points raised by Sankara in refutation of the বিশ্বানাই. as detailed in the commentary on the Brahma-sutras.

SECOND HALF

Examiner-Dr. M. N. SARKAR, M.A., Ph.D.

Answer ANY THREE questions.

- 1.. Explain যথা আ কাৰ্থ সন্ধানিব কাৰীৰ দক্তা আ অধিবৰ্তীৰ কাৰ্যনিধি জনজিব কাৰীৰ ক্ষেত্ৰ আ অধিবৰ্তী, with special reference to the Vedantic theory of causation. How does Sankara reconcile the eternity of effects with their illusoriness?
- 2. Develop fully the Vedantic conception of Lila. Is it consistent with a creative purpose? Fully discuss the question.
- 3. Explain with illustrations the Naiyayika conception of external (মুন্ত্রীন) and internal (মুন্ত্রান) relations. Can internal relations be assimilated in the Absolute? Reproduce the views of Bradley and Sankara.
 - 4. Fully explain after Sankara the Sutra किलामनेशवात्.
 - Can the law of contradiction be reconciled to the law of identity?
- 5. Explain the points of difference between Vijnanavadi Baudhas and Sankara regarding external perception. How do you reconcile Sankara affirmation of the reality of the "given" with its empirical ideality?

SECOND PAPER

The questions are of equal value

FIRST HALF

(VEDĀNTĀPARIBIJĀSĀ)

Examiner-Dr. ABHAYKUMAR GUHA, M.A., Ph.D.

Answer ANY THREE

- 1. Distinguish between प्रमात्चतन, प्रमाणचेतन्य. and विषयचेतन्य. According to the Advaita Vedanta, चैतक is one and the same. If so, how is it possible for it to assume three different shapes?
- 2. How does the Vedantaparibhāṣā refute इन्हिगल of घल:करच ? What is the view of Sankara to whose school the author belongs?

3. Give a critical account of the Vedantia theory of perception.

- 4. Is "व्यंतिरेकि चनमान" of the Naivāvika to be classed as चनुमान ?
- What view does the Vedāntaparibhāsā entertain on the matter?
 . 5. Is "चन्पलब्धि" to be taken as a separate pramāna? Give reasons for your answer.

SECOND HALF

Examiner-Dr. Surendranath Dasgupta, M.A., Ph.D.

Attempt ANY THREE

1. Compare or contrast Rāmānu'a's theory of illusory perception with that of the school of Sankara Vedanta.

2. 'Perception reveals only pure being and all content is illusorily

imposed on it.

Criticise the above from the point of view of Rāmānu'a.

3. How do the Sankarites describe the falsity of the world-appearance, and how can it be criticised from the point of view of Rāmānu'a?

4. How does Rāmānuia argue in favour of 'Jñānakarma-samuccaya-

vāda ' as against Sankara?

5. Explain clearly the points of controversy between Ramanuja and Sankara and offer your own general criticisms on it.

(SPECIAL BRANCH—INDIAN PHILOSOPHY)

(GROUP V)

(VEDANTA-TRANSLATION)

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Kokileswar Bhattacharyya, M.A.

Attempt ANY THREE of the following

1. Which of the ancient Upanishads contributed most to the interpretation of the Brahma-sutras as given by Sankara? What necessity was felt for such interpretations?

Some critics say Sankara's interpretations are more forced than those of Ramanuja. Give your own views on this point.

2. In explanation of the relation between Brahms and the visible world (इश्रव) we find the following line in one of Sankara's works:--

" रज्यादेश्वरगारी: सत्यभारस्य द्वायमस्यः" (i.e., the relation between Brahma and the world is like that of a piece of rope and the snake appearing on it).

Fully explain what you understand by this.

3. Does Sankara-Vedanta 'deny the place of desire and passion thus outting oneself off from all concrete individual interests '-in the words of Caird?

Examine this view and give your own estimate of the subject in the

form of a short essay.

4. In reading Sankara-bhashya you must have come across what is known as the 'Vrittikara's view, as in the following sentence:-

''चनेकाताकं ब्रह्म, यथा व्रचीऽनेक्याखः एवमनेक्यक्तिप्रवृत्तियक्तं ब्रह्म। चतः एकार्त्व नानातच सभयमपि मत्यस।"

Show how Sankara refutes this view.

5. Empirical Self and Transcendental Self-as described by Sankara.

SECOND HALF

Examiner-Mr. Suryyanarayan Sastri.

Answer ANY THREE questions.

1. 'Just as, dear one, through one lump of clay, all that is made of clay is known, the modification being a name originated by speech, the clay alone being real. How does Sankara interpret this text? Does it lead to Panthelsm? Discuss.

2. Explain fully Sankara's view of relation, with special reference to

his criticism of samavāya.

8. Consider the validity of the charge that Sankara's Advaita is but a revised version of Nagarjuna's metaphysics.

4. Compare the views of Sankara and Ramanuja on the question of the

Jiva being a part (améa) of Isvara.

5. Explain and discuss Sankara's position on the question of free-will, comparing him with Kant.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner-Dr. SURENDRANATH DASGOPTA, M.A., PH.D.

Answer ANY THREE

1. Explain the Samkhya-Yoga views of universals and contrast it with that of the Buddhists. What aspect of the Samkhya-Yoga metaphysical position forced that school of thought to adopt their peculiar view of the universals and particulars.

2. Fully explain the position of morality in the Yoga scheme of emancipation.

8. Explain clearly the Yoga theory of illusion and its bearing on Yoga

evolution and epistemology.

4. Explain clearly the nature of the influence of Purushas on Prakriti

in determining its evolution.

5. Explain fully the theory of rebirth according to Yoga. What is your own conviction about it and how did you arrive at it?

SECOND HALF

Examiner-Dr. ABHAYKUMAR GUHA, M.A., Ph.D.

Answer ANY THREE

1. 'This Nescience is neither "being," because in that case it could not be the object of erroneous cognition (bhrānti) and sublation (bādha); nor is it "non-being," because in that case it could not be the object of apprehension and sublation.'

Discuss.

- 2. 'The instruction (given by Indra about himself) (is possible) through insight based on Scripture, as in the case of Vāmadeva.' Explain in the light of the context.
- 3. Is the individual soul पद्म or विभ in the state of मीच ? Give reasons for your answer.

4. 'The non-difference of the world from Brahman, the highest cause,

follows from what begins with the word arambhana.' Explain.
5. 'This self is essent'ally a knower, a knowing subject; not either mere knowledge or of non-sentient nature.'

Substantiate the above statement.

(Special Branch—Indian Philosophy)

(SAMKHYA-YOGA GROUP)

FIRST PAPER

All questions carry equal marks

FIRST HALF

Examiner—Dr. Surendranath Dasgupta, M.A., Ph.D.

Answer ANY THREE

1. What are the points of difference between the Kapila and the Pātanjala school of Sāmkhya?

2. Give a clear exposition of the Guna theory.

3. Explain clearly the nature of the influence of the Purushas in Yoga Epistemology, noting the divergences of the view of Vacaspati and Vijfana Bhiken.

4. How do the Samkhya and Yoga establish the existence of permanent

souls and refute the Buddhist doctrine of momentariness?

5. Explain clearly the Samkhya atheism and the theistic outlook of the Yoga.

SECOND HALF

Examiner-Dr. ABHAYKUMAR GUHA M.A., Ph.D.

Answer ANY THREE

- 1. What is सीच according to the Samkhya system? Is it a positive or negative state?
- 2. How do the Samkhyas define aging P How do they account for the first impulse of प्रकृति?
- 3. What are the characteristics of use according to the Samkhya philosophy? What reasons do they offer in support of the existence of year?
 - ''उपरागात कर्त्तेलं चित-साविध्याचित-साविध्यात ॥'' Explain.
- "तस्रादास्तिकशास्त्रस्य न कस्राप्यप्रामास्य विरोधो वा. संस्विवधयेषु सम्बेषामनाचारः चिवरीधार्श्वेति।"

Discuss.

SECOND PAPER

All questions carry equal marks

FIRST HALF

Examiner-Dr. Surendranath Dasgupta, M.A., Ph.D.

Attempt ANY THREE

1. Explain clearly the parinama theory of Samkhya and Yoga in contrast with the Vivartha views of the Vedanta.

2. Give a clear exposition of Yoga psychology and its relation to the

attainment of Kaivalya.

3. Give a clear exposition of Yoga Ethics.

4. Explain clearly the Sāmkhya-Yoga doctrine of causation and the theory of universals and particulars.

5. Discuss the Sāmkhya-Yoga view of the reality of the world in contrast with the Vedantic idealism of the falsity of the world appearance.

SECOND HALF

Examiner-Dr. S. N. MAITRA, M.A., Ph.D.

Answer ANY THREE questions.

1. What, according to Yoga, is Purusha's relation to Chitta (a) in the state of bondage, (b) in the state of freedom? Give your own estimate of the Yoga view in this respect.

2. Explain the Yoga view of concentration as a means to self-isolation. 8. Discuss self-evacuation as a spiritual ideal and compare it with the

Western ideal of self-fulfilment,

4. How, according to Yoga, is Isvara related (a) to other selves, (b) to the world? Compare the Yoga view in this respect with the Nyāya view.

5. Explain the distinctive features of Yoga Ethics and discuss the question how far Yoga ethical ideals are in line with orthodox Hindu views.

COMMERCE

FIRST PAPER

(Realistic Economics)

The questions are of equal value

FIRST HALF

Examiner-Dr. N. Sanyal, M.A., Ph.D.

Attempt any THREE questions

1. Examine the aims and methods of 'rationalisation' of industries. Consider its scope in the field of Indian industries generally.

2. Distinguish between 'constructive' and 'manipulative' speculation. Discuss their advantages and disadvantages.

3. What are the various methods for securing industrial peace? Examine their applicability to Indian conditions.

4. How far is a country's foreign trade an index of its prosperity?

'The sight exchange between two countries cannot be rising on one side and falling on the other.' Elucidate the statement.

SECOND HALF

Examiner—Dr. J. P. Niyogi, M.A., Ph.D.

Answer any THREE questions

1. What are the economic consequences of a sharp decline in the general level of prices? Are rising, falling, or steady prices best for society?

2. Discuss the advantages and limitations of municipal enterprise in

the field of industry and commerce.

3. Critically examine the statement that complete freedom of trade would bring about an equalisation of wages all over the world.

4. 'No country can permanently lose in respect of its natural advantages for industries by changes in the external value of its currency."

Critically examine this statement with reference to the controversy over the 1s. 6d. ratio in India.

5. Discuss the advantages and disadvantages of competition in transport services.

SECOND PAPER

(ACCOUNTANCY)

The questions are of equal value

FIRST HALF

Examiner-Mr. S. R. Baltiboi, F.S.A.A.

Only THREE questions out of the five are to be attempted, of which No. 2 is compulsory and should be attempted by all

1. H. Hamid is insolvent. From the following particulars prepare his Statement of Affairs, stating how much in the Rupee may be expected, allowing Rs. 3,000 costs:—

		Rs.
Creditors for Rent, Rates, etc		6,500
Creditors fully secured	•••	40,000
Creditors partly secured	•••	1,20,000
Creditors unsecured	•••	1,60,000
Plant (estimated to produce Rs. 65,500)		1.00.000
Stock (estimated to produce Rs. 22,400)		32,000
Book Debts, good		20,000
Book Debts, doubtful (expected to realise Rs. 10,000)	•••	20,000
Book Debts, bad	•••	8,000
Household Furniture (expected to realise Rs. 7,000)		7.000
Life Policy for Rs. 30,000, surrender value		12,000
Loan on Life Policy with interest accrued	•••	10,400

The estimated value of securities held by fully secured creditors is Rs. 60,000 and those held by partly secured creditors, Rs. 60,000.

2. The Fasli Trading Co., Ltd., was registered with an authorised capital of Rs. 2,00,000 divided into 10,000 6 per cent. preference shares and 10,000 ordinary shares of Rs. 10 each. The following balances were open on the books on December 31st, 1930:—

				Rs.
Ordinary Share Capital Account				82,500
6 per cent. Preference Share Cap	ital Acco	unt		50.000
Calls unpaid on Ordinary shares		•••		1.250
Sundry Creditors			•••	12,600
Additions to Machinery		•••		3,000
Commission	•••	***		1,600
Work executed		•••	•••	8,70.000
Goodwill		•••	•••	30,000
Rent, Rates, and Taxes		•••		9,000
Stock at January 1st, 1930	•••	•••	•••	37,820
Wages				2,10.000
Profit and Loss A/c. Jan. 1st 199	n iii R	alance	•••	3.100
5 per cent. Debentures			•••	60,000
Sundry Debtors	•••	•••		50.000
	•••	•••	•••	3.000
Porfeited Shares Account	7.4	1000	•••	40.000
Machinery and Plant, Balance, Jo	en. Tee.	1900	•••	1,80,000
Purchases	•••	•••	•••	0.000
Stationery	•••	•••	***	3,000
Office Furniture	***	•••	•••	0,000
<i>5</i> 1—81				

				Rs.
Bad Debts Reserve	•••		•••	6,000
Interim Dividend paid on	Preference Shares		•••	8,000
Salaries	•••	•••	•••	23,000
Directors' Fees	•••	•••	•••	5,000
Cash on account of works	in progress	•••	•••	50,000
Discounts Received	•••		•••	2,800
Cash at Bank	•••	•••		28,00 0
General Expenses	•••	•••	•••	8, 10 0
Cash in Hand	***	•••	•••	100
Audit Fee	***	•••	•••	630
Debenture Interest paid	•••	•••	•••	3,000

Prepare Trading and Profit and Loss Accounts for the year ended December 31st, 1980, and Balance Sheet at that date. The Directors propose to place Rs. 20,000 to Reserve and to pay the dividend due to the preference shareholders and declare a dividend of 10 per cent. on the ordinary shares, carrying forward the balance. Show these proposals in an Appropriation Account.

The Stock and works in progress at December 31st, 1930, were taken at:—

			7 613 *
Stock, General	•••	•••	62,200
Stock, Stationery	•••	•••	1,000
Works in progress	•••	•••	75,000
Works in progress, profit accrued	•••	•••	5,000
Machinery to be written down by	•••	•••	4,300

3. Black is in business. His assets, exclusive of goodwill, are valued at Rs. 3,00,000, and his liabilities are Rs. 20,000. White is in business. His assets, exclusive of goodwill, are valued at Rs. 2,00,000, and his liabilities are Rs. 15,000. Their net profits for the last three years have been:—

		Black.	White.
		Rs.	$\mathbf{Rs.}$
1st year	•••	6,000	4,000
2nd year	•••	7,000	5,000
3rd year		8,000	6,000

They agree to sell their businesses to a limited liability company to be formed with a nominal capital of Rs. 10,00,000 divided into 60,000 5 per cent. preference shares of Rs. 10 each and 40,000 ordinary shares of Rs. 10 each, the company taking over assets and liabilities. It is also agreed that Black and White shall each receive fully paid preference shares in consideration of goodwill calculated on the basis of two years' purchase on the average past three years' profits; the balance of purchase price to be paid in cash. The public subscribe and pay in full for 20,000 preference shares and 95,000 ordinary shares. The company paid preliminary expenses Rs. 15,000.

ordinary shares. The company paid preliminary expenses Rs. 15,000.

Show the vendors' accounts in the company's ledger and the balance sheet of the company after these transactions have been completed.

4. Prepare Manufacturing and Profit and Loss Accounts from the following figures, and a Cost Sheet showing the cost of production per article made and sold. The sales consist of radio sets at the uniform selling price of Rs. 200 each:—

				Rs.
Wages	•••	•••	•••	2,28,000
Salaries	•••	•••	•••	8,550
Purchases	•••	***	***	2.60.750

				Rs.
Sales	•••	•••	•••	5,70,000
Opening_Stock	•••	•••	•••	20,000
Motive Power	•••	•••	•••	23,750
Carriage Inwards	•••	•••	•••	950
Rent, Factory Rent, Office	•••	•••	•••	4,750 3,800
General Expenses	•••	•••	•••	7,600
Commission	•••	•••	•••	1,900
Machine Repairs	•••	•••	•••	2,850
Machine Depreciation	•••	•••	•••	4,750
Closing Stock	•••	•••	•••	10,000

5. A. B. is in business and has one Bought Ledger, three Sales Ledgers (town, country, and agents), and a General Ledger. The balances on these ledgers were on May 1st, 1931, as follows:—

DEBIT BALANCES: Town Rs. 13,700; Country Rs. 21,710;

Agents Rs. 4,760.
CREDIT BALANCES: Bought Ledger Rs. 31,310; General Ledger Rs. 20,980.

The CASH BALANCE as at that date was Rs. 12,120.

During the month of May the Cash Book showed:-

RECEIPTS: Town Rs. 31,300; Country Rs. 21,700; Agents Rs. 1,730.

PAYMENTS: Bought Ledger Rs. 42,120; General Ledger Rs. 21,300.

The SALES were Town Rs. 33,360; Country Rs. 31,610; Agents Rs. 8,700.

The PURCHASES were Rs. 38,200. The JOURNAL TRANSFERS were. Town Ledger Cr. and Bought Ledger Dr., Rs. 5,200.

The CASH BALANCE on May 31st, 1931, was Rs. 3,430. Prepare adjustment accounts as they should appear in General Ledger on 31-5-31 and show the Trial Balance of the books.

SECOND HALF

Examiner-MR. RANJIT RAY, A.C.A.

Answer any TWO questions and Question No. 4

1. A and B are in partnership, sharing profits and losses equally. A holds 5/6th of the capital in the partnership and B holds the balance. Their assets and liabilities on the 1st Jan., 1931, were as follows:—

•	Assets.		Liabilit	ies.
		Rs.		Rs.
Plant Lease Debtors Stock Cash	··· ··· ···	30,000 20,000 12,000 15,000 5,000	Creditors	10,000

On that day they sold the business (including cash) as a going concern to a private limited liability company, formed for the purpose, with a nominal capital of Rs. 1,20,000 divided into 12,000 shares of Rs. 10 each. The purchase price agreed with the company was Rs. 1,06,000, to be satisfied by taking over the creditors, and the balance by the allotment of fully paid up shares to A and B in proportion to their interests in the partnership.

The preliminary expenses were Rs. 2,000, paid in cash. Show the opening Balance Sheet of the company and the realisation account and partners' accounts in the partnership books duly closed.

- 2. (a) The M. Manufacturing Co., Ltd., had an issued capital of Rs. 10,00,000 in Ordinary Shares of Rs. 100 each, on which Rs. 75 per share had been called up and paid. A final call was made, and all amounts were paid except Rs. 250 due from a shareholder who owned 10 shares. These shares were forfeited and re-issued at Rs. 90 per share for cash. Show the necessary entries in the ledger recording all transactions from and including the date of the call and the balances of these accounts as they would appear in the Balance Sheet.
- (b) Y owes X Rs. 5,000 for goods on 1st Jan., 1931. X draws a bill on Y for that amount at 3 months. Y accepts the same. On the same day X discounts the bill at his Bankers at 6 per cent. On maturity, as Y is unable to meet the bill in full, X gives Y a cheque for Rs. 2,500 to enable him to do so, and draws on Y for the balance at 4 months plus interest at 6 per cent. The bill is duly met. Show the transactions as they will be recorded in the books of both X and Y.
 - 3. R's Balance Sheet at 31st Dec., 1930, was as follows:-

Assets	5.	Liab	ilities.
	Rs.		Rs.
Creditors	2,000	Plant	10,000
Capital	27,000	Stock	8,000
_		Debtors	4,000
		Cash	7,000
	29,000)	29,000
C's Balance Sheet		ec., 1930, was as fo Liab	ollows:
	Rs.		$\mathbf{R}\mathbf{s}$.
Creditors	9,000	Plant	25,000
Bank overdraft	8,000	Stock	6,000
Capital	21,000	Debtors	7,000
	38,000	1	88,000

A private limited company called R. & C. Ltd. is formed, with a nominal capital of 10,000 Rs. 10 shares, to take over the businesses as going concerns as at the date of the Balance Sheets on the following terms:—

- R's Balance Sheet: Plant to be taken at Rs. 16,000. Stock to be taken at Rs. 6,000. A Reserve of Rs. 1,000 to he raised for Bad Debts.
- C's Balance Sheet: Stock to be taken at Rs. 7,000 and a Reserve of Rs. 2,000 to be made for Bad Debts.

Generally: R to receive 3,500 fully paid shares as the purchase price of his business, and C to receive 2,500 fully paid shares as the purchase price of his business. 3,000 shares of Rs. 10 are taken up and paid for in full by a friend of R's. The preliminary expenses of Rs. 1,400 are paid in cash by the company. The overdraft at C's bank is paid off by the company and R's bank balance is transferred to the company's account. Show the opening Balance Sheet of the company after the above arrangements have been completed.

4. Dutt & Das are equal partners. They admit Sen to 1/8 interest in the partnership on the 1st Jan., 1980, on the condition that he contributes Rs. 30,000 to be left in the business, of which sum Rs. 10,000 is to be for

Goodwill. The Balance Sheet of Dutt & Das at this date was as follows:—

			$\mathbf{Rs.}$			Rs.
Creditors Dutt Das	•••	20,000	3,700 30,000	Property Debtors Cash	•••	10,000 6,500 17,200
1			33,700			33,700

⁽a) Prepare the opening Balance Sheet of Dutt, Das & Sen.

They trade for a year, at the end of which time their Balance Sheet shows the following alterations when compared with that at 1st Jan., 1931. Creditors increased by Rs. 6,160. Debtors decreased by Rs. 3,300. Cash is Rs. 23,600. Dutt's Capital a/c is Cr. Rs. 8,000; Das's Capital a/c. Cr. Rs. 9,000; and Sen's Capital a/c. Cr. Rs. 9,940.

They agree to dissolve partnership forthwith. The property realises Rs. 8,000 and Das takes over the Book debts for Rs. 8,000. The cost of

Realisation is Rs. 500.

(b) Prepare final accounts.

5. The balances taken from the books of the Western Railway Company at 31st Dec., 1930, are as shown below. Prepare therefrom the Capital Account and Balance Sheet based on the Double Account principle, Summary of Revenue Accounts, and a statement showing the proposed appropriation of net income. The Directors recommend a dividend of 4 per cent. on Rs. 2,00,00,000 4 per cent. Preference Shares and 5 per cent. on the Rs. 3,00,00,000 Ordinary Shares.

			rs.	Ks.
Sundry Debtors and Creditors			6,00,000	12,00,000
Closing stock		•••	16,60,400	
Investments	•••	•••	68,00,000	
Cash	•••	•••	8,00,000	
General Reserve	•••	•••	*****	40,00,000
Lines open for Traffic	•••	•••	4,00,00,000	,,
Lines open for Traffic during year		•••	20,00,000	
Road Vehicles	•••	•••	8,00,000	
Interest on Loans			2,50,000	
Transfer fee				400
Railway Receipts and Expenses		•••	50,00,000	80.00,000
Interest and Dividends	•••	•••	00,00,000	3,20,000
Shares and Stocks			•••••	5,00,00,000
Loans		• • • • • • • • • • • • • • • • • • • •	•••••	50.00,000
Hotel Expenses and Receipts	•••	•••	2,50,000	3,00,000
Due to Clearing Houses	•••	•••		50,000
Fire Insurance Fund	•••	•••	*****	40,00,000
Bus Receipts and Expenses	•••	•••	1,00,000	1,20,000
Debenture Stock	•••	•••	•	1,00,00,000
	•••	•••	*****	50,00,000
Debenture Stock during the year	***	•••	1 00 00 000	90,00,000
Rolling Stock	•••	•••	1,22,00,000	
Rolling Stock during the year	•••	***	25.00.000	
Interest on Debenture Stock	•••	•••	7,50,000	
Hotels	:	•••	50.00.000	
Manufacturing and Repairing Plan			80,00,000	•
	Plant	during	12 00 000	
the year		•••	15,00,000	0 00 000
Profit and Loss Balance brought i	orward		*****	2,20,000
			8,82,10,400	8,89,10,400

THIRD PAPER

(COMMERCIAL LAW)

The figures in the margin indicate full marks.

FIRST HALF

Examiner—DR. RADHABINOD PAL, M.A., D.L.

To answer Question 6 and any THREE of the rest

- 1. Briefly state the law relating to the formation of a contract.

 Discuss the principles laid down in the Carbolic Smoke Ball

 ('o.'s case.'

 2. (a) A promises to B that, in case C will render to A some
- 2. (a) A promises to B that, in case C will render to A some specified service, A will pay B Rs. 10,000. C, at the request of B, renders A the specified service.
- (b) A promises to C that if the latter will render some specified service to former, the former (A) will pay B Rs. 10,000. Thereupon C renders that specified service to A.
- If now A declines to pay the promised sum to B in either case, what will be B's remedy? Give reasons for your answer.
- 3. Explain the difference between 'joint' liability and 'joint 10 and several' liability.

Examine the legal position of joint promisors under the Indian Contract Act.

- 4. A distinguished American Jurist says that in every contract 10 the promisor undertakes certain risks.
- Examine this.
 5. Examine how far a person is allowed by law to constitute 10 himself the creditor of another.

20

6. 'When a contract has been broken, if a sum is named in the contract as the amount to be paid in case of such breach, or if the contract contains any other stipulation by way of penalty, the party complaining of the breach is entitled, whether or not actual damage or loss is proved to have been caused thereby, to receive from the party who has broken the contract reasonable compensation not exceeding the amount so named or, as the case may be, the penalty stipulated for.' (Section 74 of the Indian Contract Act.)

Comment on this section, with reference to the principle that 'the incidents of a legal relation constituted by a contract are generally governed by the intention of the parties.'

Or.

Discuss, with reference to the leading cases, the essential requisites for awarding special damages in cases of breach of contract.

SECOND HALF

Examiner—Mr. N. C. CHATTERJEE, M.A., B.L., BAR.-AT-LAW. To answer Question 1 and any TWO of the rest.

- To answer Question 1 and any Two of the rest
- 1. Write a short essay on the Law of Agency.

 2. Examine the effect of war on contract, with special reference to the decision in Ertel Bieber & Co. v. Rio Tinao Co., Ltd.
 - 3. Write short notes on any two of the following:—
- (1) Warranty; (2) Market overt; (3) Doctrine of caveat emptor; (4) Doctrine of stoppage in transit.

15 15 15

15

4. Examine the position of an 'infant' as a partner in a firm.
5. Write a short note on 'contracts of affreightment.'
6. A advances money to B and takes a promissory note from him in the name of C (C thus being only A's benamdar). B failing to repay the amount, A brings a suit on the promissory note against B for the recovery of the amount. B pleads that as the promissory note stands in the name of C, A's suit must fail. Examine the validity or otherwise of this plea.

7. Draw up a 'memorandum of association' for a company

limited by guarantee.

FOURTH PAPER

(BANKING)

The questions are of equal value

Only THREE questions need be answered from each half

FIRST HALF

Examiner-MR. B. R. RAU, M.A., L.T.

- 1. Write explanatory notes on any four of the following:-
 - (a) The world bank rate.
 - (b) Forward Exchange.
 - (c) Garnishee order.
 - (d) Continuing guarantee.
 - (e) Circular letter of credit.
- 2. Explain clearly how the Exchange Banks finance the foreign trade of our country. Outline a scheme for the financing of our foreign trade with the help of our domestic resources.

3. Can a Central Bank check speculation on the Stock Exchange? What lessons do you infer from the recent American speculative crash?

4. (a) Discuss the risks that a banker runs in opening a current account without any introduction or reference.

(b) Explain the circumstances which compel a banker to stop the

payment of a cheque.

5. Comment on the position of the indigenous banker of this country in the banking organisation as a whole. How do you propose to improve his position and standing in the money market of the country.

SECOND HALF

Examiner-Mr. N. L. CHANDAN, B.Sc.

1. Write short notes on any four of the following:

(a) Mint Par of Exchange.(b) Revolving Credit.

- (c) Budli Transactions.
- (d) Bankers' Lien. (e) Not Negotiable.
- (f) Equitable Title.
- Explain the risks which a collecting banker runs in purchasing from strangers cheques drawn upon other bankers.

3. Discuss the reasons for the reluctance on the part of modern commercial banks to make advances against the security of immovable property.

4. In what respects does the Imperial Bank of India differ from the central banks of the leading European countries? Examine the reasons which led the Hilton Young Commission to recommend the starting of a new Reserve Bank of India.

5. Explain Specie Points and state the factors which account for

changes in the same.

(Business Organisation)

The questions are of equal value.

THREE questions are to be attempted from BACH half

FIRST HALF

Examiner-Mr. G. Basu, A.S.A.A.

1. In Marine Insurance, what is meant by the term 'Average'? Distinguish between 'Particular' Average and 'General' Average. Calculate the amount of Particular Average in the following case:-

Owing to a heavy storm at sea, a portion of a consignment of sugar from Java is damaged. The insured value of the damaged property is Rs. 10,000. It is estimated that but for the damage this portion of the consignment would have realised Rs. 12,000. The estimated value of the damaged property, as ascertained by Chartered valuers, is Rs. 10,800.

2. Carefully distinguish between (a) Futures Proper, (b) Options, and

(c) Straddles.

In a straddle operation, suppose a dealer buys cotton which is to be delivered in June or July at 5d. per lb., and sells the same quantity of futures deliverable in July or August at $5\frac{1}{6}\frac{a}{3}d$. per lb.; then whether the prices rise or fall as a whole, show that he loses if the differences between the two prices becomes greater than and

3. What are the main points of distinction between Insurance and

Wager?

Also point out and discuss the special case when an Insurance Policy

loses sight of the principle of indemnity.

4. What are the principal provisions to be contained in the Articles of Association of a company whose shares may obtain an official quotation on the London Stock Exchange?

5. Show how in Germany and America banks have contributed to the development and control of industrial concerns. Compare these conditions

with those obtaining in India.

SECOND HALF

Examiner-Mr. N. N. SARKAR, M.A.

1. Explain the following terms and abbreviations:

(a) Garnishee Order, (b) Open Policy, (c) Arbitrage, (d) Backwardation, (e) Cheque Rate, (f) Dead Freight, (g) Firm Offer, (h) One Man Company.

2. The chief economic factors of production are said to be Land, Labour, Capital, and Organisation. Show which of these functions is undertaken by the Board of Directors of a public company.

With reference to the present conditions prevailing in Bengal, explain what particular difficulties the Board of Directors may have to encounter in the organisation of the cotton mills company in Bengal.

3. Explain, in detail, three of the principal methods of remunerating labour. Which of these do you consider best suited for the conditions in a

jute mill? Give reasons for your answer.

4. What are the possible benefits to be derived and what are the usual drawbacks in setting up a detailed system of costing in a large

industrial concern?

5. A joint-stock company is being promoted for the establishment of a large chemical industry. It will be some time before the building, plant, and machinery will be ready for use. The money market being very tight, the promoters decide that some inducement in the shape of payment of interest on fully paid up shares must be held out so that an adequate amount of share capital may be raised.

Indicate what steps, under the Indian Companies Act. must be taken

for the accomplishment of this object.

(INDUSTRIAL STRUCTURE AND DEVELOPMENT)

The questions are of equal value.

FIRST HALF

Examiner-Mr. B. R. RAU, M.A., L.T.

Answer any THREE questions

1. Discuss the causes that have contributed to the growth of rapid increase of giant businesses in the modern industrial world. Why are vertical integrations less frequent than horizontal combinations?

2. What do you consider to be the most appropriate machinery for

improving the relations between employers and workmen?

3. Discuss the potentialities of the development of (a) chemical indus-

tries, (b) shipbuilding industry in Inlia.

4. What are the present methods of recruitment of labour for Indian industries? Are there any defects in these methods and, if so, how do you propose to remove them?

5. Discuss the causes of industrial unemployment in India. Indicate the methods of relief you would advocate for alleviating distress due to

such unemployment.

SECOND HALF

Examiner—Mr. R. M. CHAUDHURI, M.A.

Answer any THREE questions

- 1. In what different ways has Government intervened in modern industries? How far has such intervention been conducive to industrial efficiency?
 - 2. Indicate the reasons for the decline of the Lancashire cotton indus-

try in recent years.

3. Discuss the causes that led to the phenomenal industrial development of Germany since 1871.

4. Explain the nature of financial difficulties experienced by small and middle-class industrialists in India. How would you propose to remedy them?

5. How would you combine industries with agriculture to solve the problem of rural unemployment in India?

6. Give an idea of the labour movement in France during the latter half of the 19th century. In what ways does it differ from the contemporary labour movement of Great Britain?

(ECONOMIC GEOGRAPHY)

The questions are of equal value Answer any THREE from EACH half

FIRST HALF

Examiner—Dr. Harischandra Sinha, M.Sc., Ph.D.

- 1. 'Industrialism must rest on coal.' Critically examine this state-
- 2. Give a brief sketch of the oil resources of different nations. Mention some of the recent scientific developments which are likely to affect the trade.
- 3. 'With the increasing industrial development of the United States, the importance of the North Atlantic route will be diminished.' Discuss this statement.
- 4. What do you know of the Five Year Plan in Russia? How far, in your opinion, is it likely to be successful?

5. Examine and estimate the mineral wealth of China.

SECOND HALF

Examiner—Mr. Mohitkumar Ghosh, M.A., B.Com.

- 1. What do you know of the present movement for the restriction of production of raw materials? Illustrate your answer with examples from Iulia.
- 2. State concisely the present position of the wheat trade. Do you think that the present import duty on wheat in India is justified?

3. Critically discuss, with the help of a sketch map, the distribution

of various types of irrigation works in this country.

4. Describe the present position of the salt trade in India. How will the recent import duty affect consumers in Bengal?

5. Analyse the causes of the present trade depression in India. How far have non-geographical causes aggravated the crisis?

(CURRENCY)

The questions are of equal value

FIRST HALF

Examiner-MR. B. R. RAU, M.A., L.T.

Only THREE questions to be attempted

1. Discuss the economic consequences of inflation and deflation currency.

- 2. Explain clearly how a bank system can control the price-level.
- 3. What do you mean by the remonetisation of silver? Examine the merits of this proposal from the standpoint of Indian monetary progress.
- 4. Explain the main significance of the international gold standard system. Briefly discuss the reasons for international gold movements.
- 5. Examine the main reasons for the breakdown of the Gold Exchange Standard in India during and a ter the War.

Examiner—DR. B. B. DASGUPTA, M.A., PH.D.

Answer any THREE

- 1. Discuss certain noteworthy aspects of the severe slump in prices since the autumn of 1929. What are its causes?
- 2. It is apprehended that the world's trade will shortly outrun the world's gold supply. What evil consequences are likely to ensue in such an eventuality, and what possible remedies would you suggest?
- 3. Explain the working of the Gold Bullion Standard as recommended by the Hilton-Young Commission for India.
- t. 'An absolutely dependable index number of prices has yet to be found.'

 Discuss the statement.
 - 5 State and criticise the doctrine of purchasing power parity.

(STATISTICS)

The questions are of equal value

FIRST HALF

Examiner-Mr. S. N. Banerjee, M.A.

Answer only THREE questions

- 1. Write a concise note on the practical objects of Statistics in business.
- 2. What is meant by the 'statistical unit?' Give in brief outline a scheme of the classification of statistical units in connection with business phenomena. Illustrate your answer by examples.
- 3. Discuss briefly the advantages and disadvantages of semi-logarithmic curves for presentation of statistical data.
- 4. Explain fully the construction and uses of the 'moving average curve' for representation of secular trend.
- 5. Indicate briefly the method of the construction of Index Numbers of Real Wages, pointing out the limitations to their interpretation in international comparisons.

Examiner-Mr. S. M. GANGULI, M.A., D.Su.

Only THREE questions to be attempted

1. Explain the principle of interpolation. The pressure of wind in pounds per square foot corresponding to the velocity in miles per hour has been determined by experiment to be approximately as follows:—

Velocity	Pressure			
15	1.1			
20	2.0			
30	4.4			
40	7:9			
45	8.3			

Estimate the pressure for a velocity of 25 miles per hour.

2. Define weighted average.

The average prices of Jute and the quantities sold at several places are given below:—

Place	Average price per md.	Quantity sold (md.)
Navaingunge	Rч. 7-8 нв.	82,000
Mymen-ingh	Rs. 7-12 as.	15, 000
Serajgunge	Rs 8-2 as.	12,000
Madaripur	Rs. 6-14 as.	1,000
Chandpur	Rs. 7.6 as.	16,000

Find the mean price for the several places, weighting each local average with the quantity sold.

Would it be possible for the average price at each of the above places to rise from one year to the next and yet for the weighted mean price to fall? If so, under what conditions?

3. What do you understand by Standard deviation? Show that the mean square deviation is least when deviations are measured from the arithmetic mean.

Find the mean and standard deviation for the sizes of the rooms given below:—

Area of room in sq. ft.	80-40	40-60	60-80	80-160	100-120	120-140	140-160	
Number	8	14	16	36	31	35	35	

4. What are the advantages and disadvantages of the Mode as a Type? Apply the process of grouping in locating the mode to the following data:—

Size of item	5	6	7	8	9	10	11	12	13	14	15	16	17
Frequency	48	52	56	60	62	60	58	56	63	60	48	40	32

5. Define Karl Pearson's correlation coefficient. What inferences can you draw from the values +1, 0, and -1 of this coefficient?

Examine whether there is any causal connection between the following groups of data:—

X	Y	x	Y
22	18	28	27
24	20	29	21
26	20	30	29
27	22	30	32
27	24	31	27

(AUDITING)

The questions are of equal value

Answer only FOUR questions from BACH half

FIRST HALF

Examiner-Mr. N. K. Majumdar, M.A.

- 1. The Directors of a Film Company incurred the following expenses during the year under audit:—
 - (a) New piano Rs. 4,840 replacing worn out instrument sold for Rs. 240.
 - (b) Legal and other expenses incurred in obtaining power from the local authorities to open on holidays and on festival days, Rs. 1,500.

- (c) Alterations to emergency exits upon the requisition of the licensing authority, Rs. 1,050.
- (d) Cash payments in connection with a new lease (16 years)—Ground landlord for commuted rent, Rs. 4,700 (future annual rent, Rs. 2,3000). Law costs, etc., Rs. 350.

Differences have arisen among the Directors regarding the proper allocation of the above items as between capital and revenue and, as auditor to the company, you have been requested to state your views.

Submit your report to the Directors.

- 2. As auditor of a limited company, you are asked by the Directors to advise them with regard to the payment of an Interim Dividend. To what points would you give attention in considering this matter, and what information would you require to enable you to form an opinion? mation would you require to enable you to form an opinion?
 - 3. Submit your criticism on the following Balance Sheet:-

Balance Sheet as at 31st Desember, 1930.

	\mathbf{Rs} .	i	Rs.
Authorised, Issued, and		Land. Building Leases,	
Subscribed capital, less		Patents and Goodwill	
calls in arrears		at cost less Deprecia-	
Reserve and other Funds	5,00,000	tion written off to 31st	
8 per cent Debentures		December, 1926	29,00,000
Other Loans— Rs.		Preliminary Expenses	85,000
Secured 9,25,000		Stock and Work in pro-	-
Unsecured 4,00,000		gress, inclusive of	
	13,25,000		2,25,000
Interest accrued on De-	, ,	Debtors less Reserve	2,28,000
bentures and Loans	1,75,000	Loans to and shares in	
Subsidiary Companies	5.00,000	subsidiary companies	9,50,000
Sundry creditors and		P. & L. a/c as per	. , ,
other trade liabilities	7,75,000	Account attached	9,02,800
	, , ,	Bank and cash balances	50,000
	1	Dalla Was Cash Dalations	
Rs.	53,40,800	Rs.	53,40,800
			-

The authorised issue of Debentures is Rs. 20 lacs, of which 10 lacs are pledged with secured creditors. The Debentures are repayable on 31st December, 1932. Of the book debts, Rs. 10,000 are due by the ex-Manager and Rs. 5,000 by the Managing Director. The subsidiary companies are four in number and are conducted by the Managing Agents of the parent company. The shares of the subsidiary companies are of Rs. 100 each, Rs. 50 paid up. The Bank overdraft of one of the subsidiary companies is guaranteed by the parent company.

- 4. A client of yours, who is the largest shareholder in a private limited company, desires to nominate you as auditor in place of the existing auditor who offers himself for re-election. What steps must your client take to effect his purpose?
- 5. A limited company was registered for the purpose of purchasing an existing business as from July 1st. The business was taken over as on September 1st—the date when the company was entitled to commence business.
- In due course, accounts were prepared which disclosed c loss of Rs. 5,632 for the period July 1st to September 1st. As auditor to the company, how should you require this loss to be dealt with?

Examiner-Mr. S. N. MOOKERJEE, F.S.A.A.

6. State concisely the effect of the decision in the Court of Appeal in the case of Ammonia Soda Company v. Chamberlain relating to the payment of dividends by Directors of a company.

Or,

It is said, 'Vouching is the very essence of auditing.' Explain fully your view on the statement.

- 7. Give the items you would expect to find on the Assets side of the Balance Sheet of a Bank and state briefly what steps you would take to verify the correctness of each.
- 8. What are investigations? Give typical examples of investigations, indicating objects and purposes and parties on behalf of whom such investigations are undertaken.

In particular, describe the conduct of an investigation on behalf of a company to be formed to acquire a business as a going concern, the special points to be attended to, the adjustments of profits and losses to be made, and the Certificate you will be prepared to sign of profits for insertion in the Prospectus of the New Company.

9. The following assets are in the Balance Sheet of an Insurance Company of which you are auditor. How would you satisfy yourself as to the

correctness?-

- (a) Loans on Company's Policies within their surrender value.
- (b) Investments in Reversions.

(c) Agents' Balances

(d) Outstanding Premiums.

(e) Imperial Bank of India shares.

10. What are the special points to be observed in the audit of a Landed Estate?

(Public Finance)

The questions are of equal value

FIRST HALF

Examiner—Prof. P. N. Banerjea, M.A., D.Sc.

There questions only to be attempted

1. Discuss the extent of the financial powers vested in the central legislature and the provincial legislatures of India under the present constitution.

2. Give a brief account of the development of provincial finance in

India.

3. Describe the main sources of income of local bodies in Bengal. Indicate the directions in which new sources of income appear likely to be secured for local finance in the province.

4. Briefly trace the history of the salt tax in India.

5. Describe the constitution and character of the existing public debt of India. Is the burden of the debt heavy?

Examiner-Prof. S. C. Ray, M.A.

Attempt only THREE questions

- 1. Uxplain the general principles governing (1) the internal, (2) the external, cases on commodities.
 - 2. Define 'Taxable capacity.'

 Wow would you determine the taxable capacity of a nation?

 What are the difficulties in the way of such determination?
- 3. Classify the Public Expenditure of India in accordance with the following two principles:—
 - (a) Preservation of the social life of the community.

(b) Improvement of the quality of that social life.

Estimate some of the difficulties in the classification of Public Expenditure.

4. Differentiate between (1) proportional, (2) progressive, (3) regressive, and (4) degressive taxes. Give examples from the Indian system.

Estimate the effects of each of these kinds of taxes on the inequalities

of income.

5. 'The development of the budgetary practice is bound up with the rise of representative Government. . . The Budget is an essential factor in responsible Government.'

Explain this statement fully.

Describe the different stages in Budget procedure in India.

(TRANSPORT)

The questions are of equal value

Answer any THRFE questions from EACH half

FIRST HALF

Examiner-Mr. M. K. GHOSH, M.A., B.Com.

1. Explain clearly the meaning of the term 'Classification.' Discuss fully the factors which influence classification.

- 2. Discuss how far railway rates can be utilised in supporting the tariff policy of a country. Illustrate your answer by taking some concrete examples.
 - 3. Write notes on:-
 - (a) Export and Import Rates.

(b) Pooling arrangements.

(c) Organisation of the Railway Department of the Government of India (Railway Board) as suggested by the Acworth Committee.

4. Critically discuss the advantages and disadvantages of Road Trans-

port as compared to those of Railway Transport.

5. Examine the causes of the supersession of horse transport by motor transport. Is motor transport always more economical than horse transport? Discuss the conditions under which horse transport can maintain its position against motor transport.

Examiner-MR. H. D. GHOSH, M.A.

1. Discuss the reforms of Indian Railway Finance proposed by the Acworth Committee. Explain briefly why the Acworth Committee could not agree with the Inchcape Committee on this question, and describe the financial obligations of the State Railways under the new system now in force.

2. Write a short review of the Branch line railway systems of India, specially from the view-points of management, finance, and economic value.

3. Discuss the main features of the Divisional system of Organisation of railways. Explain briefly the chief differences between the Divisional and Departmental systems of Organisation and the reason why the Government of India (Railway Board) are now so much in favour of introducing the Divisional system on Indian railways.

4. What are Schedule rates? How do you account for a number of schedule rates on Indian railways with different schedules of charges? Discuss the problem of Equal-mileage and Telescopic scales of charges, and examine the question of introducing Continuous mileage rates on Indian railways from Railway and public points of view.

5. What do you understand by the terms: Depreciation Fund, Net Revenue receipts, Railway reserve, Operating ratio, Density of Traffic, Route miles, Engine hours, Light-engine miles, Vehicle miles, Passenger miles, Gross Train load, and Net Train load?

(ECONOMIC HISTORY)

The questions are of equal value

Answer any three from each half

FIRST HALF

Examiner-Mr. Bejoykumar Sarkar, A.B.

- 1. Trace the circumstances which led to the Repeal of the English Corn
- 2. Give a brief account of the Syndicalist Movement in France. What has been its influence on the Labour Movement in England and Germany?
- 3. Describe the part played by the Banks in Japan in the development of her industry and agriculture.
 - 4. Give a short account of the evolution of Factory Legislation in India.
- 5. Write a short account of the foreign trade of India since the outbreak of the last European War, indicating the change it has undergone in its character and distribution.

SECOND HALF

Examiner-Mr. ROHINIMOHAN CHAUDHURI, M.A.

1. Give an account of the agrarian revolution in Great Britain in the beginning of the nineteenth century. What are the circumstances that led to the decline of British agriculture since 1875?

2. Trace the circumstances that led to the growth of the free trade movement in Great Britain. Account for the rise of protectionist reaction in

recent years.

3. Indicate briefly the influence of the fiscal policy upon the growth of French industries in the latter half of the nineteenth century.

4. Trace the growth of industrial combinations in Germany. How far have such combinations contributed to the industrial efficiency of the country?

5. Indicate the steps that have been taken by Government in recent years for the development of industries in India. Do you consider these steps adequate?

(AGRICULTURAL ECONOMICS)

The questions are of equal value

Answer THREE questions from EACH half

FIRST HALF

Examiner—Prof. N. Ganguli, C.I.E., Ph.D.

1. Discuss the main causes of Agricultural Indebtedness in India, with

special reference to Bengal.

2. Discuss the chief remedies suggested to work off the indebtedness of agriculturists and state what you consider to be the merits and demerits of each.

3. Discuss the ways of economising land that a nation has.

4. 'In the minds of certain social reformers, known as "single-taxers," the rent of the land is not earned by the landowners.' Elucidate the proposition.

5. Draw up a brief outline of the points to be looked into in a scheme of rural reconstruction and state which of your recommendations are specially

suited to the conditions of Bengal.

6. What have been the main achievements of the Co-operative movement in India? Wherein has it mainly failed, if it has failed anywhere?

SECOND HALF

Examiner-RAI BAHADUR BIJAYBIHARI MUKHERJEE.

Take out three of what you consider to be the most importaint recommendations of the Agricultural Commission of 1928 and state your views for or against them.

8. In what circumstances can rural industries hold their own against

factory work? Discuss two such industries of India.

Enumerate the causes that stand in the way of immediate consolids. tion of holdings in India.

Suppose a legislative measure is to be undertaken insisting on consolidation, what are the difficulties to be met with in the existing circumstances of the country? How can they be met?

10. What are the advantages and disadvantages of small farming com-

pared with large-scale agriculture?

M.A. & M.Sc. Examinations,

PURE MATHEMATICS

FIRST PAPER

Examiners— { Mr. Pramathanath Mitra, M.A. , Manoranjan Gupta, M.Sc.

The questions are of equal value.

Six questions only are to be attempted.

1. (a) If
$$s = a_1 + a_2 + a_3 + \dots + a_n$$

shew that

$$\prod_{r=1}^{n} \left(\frac{s}{a_r} - 1 \right)^{a_r} \Rightarrow (n-1)^r.$$

(b) Shew that

$$\lim_{n \to \infty} \sum_{i=1}^{n} \left\{ \frac{a+s}{n} \right\}^{n} \text{ lies between } e^{-s} \text{ and } e^{n+1}.$$

- 2. (a) Examine for convergence the series
 - (1) $\Sigma \{1/1^a+1/2^a+1/3^a+\ldots+1/n^a\}/n^a$.
 - (2) $\mathbb{Z}1/n \ln l^2 n \dots l^{r-1} n \dots \{l^r n\}^a$

where ln, l^2n, \ldots represent respectively $log n, log (log n) \ldots$

(b) Sum the series

$$\frac{1^{3}}{1!}x + \frac{1^{3} + 2^{3}}{2!}x^{2} + \dots + \frac{1^{5} + 2^{3} + \dots + n^{3}}{n!}x^{n} + \dots + to infinity.$$

- 3. (a) Shew that every recurring continued fraction, pure or mixed, is equal to a simple quadratic surd.
 - (b) If the partial quotients of a simple continued fraction $x_1 = \frac{P_n}{q_n}$ form a

reciprocal series (i.e., a series in which the terms equidistant from the beginning and the end are equal), then $P_{n-1}=q_n$, and $(q_n^2\pm 1)/P_n$ is an integer; and conversely, if these conditions be satisfied, the quotients will form a reciprocal series. Prove these.

4. Establish the formula

$$\cot z = \frac{1}{z} + 2z \sum_{r=1}^{n} \frac{1}{z^{2} - r^{2}\pi^{2}},$$

and deduce that $\frac{1}{2\pi + \theta^2} = \csc^2\theta_0$

Also sum the series

$$1-\frac{1}{7}+\frac{1}{9}-\frac{1}{15}+\frac{1}{17}-\frac{1}{28}+\frac{1}{25}-\dots$$

5. If $\rho_1, \rho_2, ... \rho_n$ are the distances of a point ρ in the plane of a regular polygon from the vertices, prove that

$$\sum_{1}^{n} \frac{1}{\rho_{n}^{2}} = \frac{n}{r^{2} - a^{2}} \cdot \frac{r^{2n} - a^{2n}}{r^{2n} - 2r^{n}a^{n}\cos n\theta + a^{2n}} ,$$

where a is the radius of the circle circumscribing the polygon, the distance of P from the centre O, and the angle which OP makes with the radius to any vertex of the polygon.

Evaluate $\sum_{n=2}^{\infty}$ for a regular hexagon when P lies at the middle point of one of its sides.

6. (a) If ABC be spherical triangle right-angled at C, show that

$$\sin (A+B) = \frac{\cos a + \cos b}{1 + \cos a \cos b}.$$

(b) Two ports in the same parallel of latitude, their common latitude being land their difference of longitude 2A; shew that the saving of distance in sailing from one to the other on the great circle, instead of sailing due East or West, is

$$2r\{\lambda \cos l = \sin^{-1}(\sin \lambda \cos l)\},$$

λ being expressed in circular measure, and τ being the radius of the Earth.

- 7. (a) Shew that a biquadratic and its resolvent (Euler's) cubic have the same discriminant except for a numerical constant.
- (b) Shew that if the resolvent cubic has a pair of imaginary roots, the biquadratic has a pair of real and a pair of imaginary roots.
- (c) If the roots of a biquadratic represent the distances of four points on a right line measured from a fixed point on it, prove that when they form a harmonic range, the roots of Euler's cubic are in Arithmetic Progression.
- Give an account of Lagrange's method of solving numerical equations by continued fractions, noting specially the case where several roots lie between two consecutive integers.

Hence express the positive roots of the equation

$$12x^3 - 29x^2 - 6x + 35 = 0$$

in the form of continued fractions.

9. (a) Transform the equation

$$x^6 - 2x^5 - 24x^4 + 56x^3 - 96x^2 - 82x + 64 = 0$$

into the standard reciprocal form and solve it completely.

(b) For the equation

$$x^{n}+P_{1}x^{n-1}+P_{2}x^{n-2}+\ldots +P_{n-1}x+P_{n}=0,$$

 dS_{r+1}

prove that

$$\frac{dS_{r+1}}{dP_r} = -(r+i)II_i,$$

where II, represents the sum of the homogeneous products of the roots of i dimensions and S, the sum of the r^{ih} power of the roots, i and r being positive integers.

10. (a) Define a Skew Determinant and a Skew-Symmetric Determinant, and indicate how they differ.

Show that a Skew-Symmetric Determinant of even order is a perfect square.

(b) If Δ, represents the Determinant of the n' order

prove that

$$\Delta_n = \alpha \Delta_{n-1} - \beta \Delta_{n-2}$$

Hence, or otherwise, deduce that

$$\Delta_{n} = \alpha^{n} - (n-1)\alpha^{n-2}\beta + \frac{(n-3)(n-2)}{1.2}\alpha^{n-4}\beta^{2}$$
$$-\frac{(n-5)(n-4)(n-3)}{1.2.3}\alpha^{n-6}\beta^{3} + \dots$$

SECOND PAPER

Examiners— { Mr. Satischandra Ghosh, M.A. , P. Ganguli, M.A.

The questions are of equal value.

N.B.—Attempt five questions only.

1. (a) Given the base NS of a triangle NPS and also the sum of the cosines of the base angles SNP and NSP; let the curve locus of P be constructed. Prove that if a particle be placed at any point of the curve and

acted on by two forces, one epulsive from N and equal to $\frac{\mu}{NP^2}$ and the other

attractive towards S and equal to $\frac{\mu}{SP^2}$, the resultant force is, at every position of the particle, directed along the tangent to the curve.

- (b) A fustrum of a solid right cone is placed with its base on a rough inclined plane, the inclination of which is gradually increased; determine the nature of the initial motion of the body.
- 2. (a) Find the centre of mass of a hemisphere in which the density is proportional to the nth power of the distance from the centre.
- .(b) A uniform chain hangs over two smooth pegs in the same horizontal line, and at a given distance apart; find the length of the chain when the pressure on each peg is a minimum.
- 3. (a) Determine the laws of attraction for which the attraction of a uniform spherical shell on any external particle is the same as if the shell were condensed into an infinitely small particle at its centre.
- (b) Given the whole mass of a solid, find its shape so that its attraction, in any direction, on a particle placed at a given point may be a maximum.
- 4. (a) Establish Laplace's Equation in polar co-ordinates for a point in space at which none of the attracting matter exists.
- (b) Find the amount of work done in a material system self-attracting according to the Newtonian Law.
- 5. Determine that point in the sxis of a hemispherical body, the particles of which attract inversely as the square of the distance where a corpuscle

must be placed so as to remain in equilibrium by the equal and contrary action of the matter of the hemisphere surrounding it.

- 6. Find the attraction of a thin circular plate of uniform thickness and density on a particle in its plane, the law of attraction being that of the inverse cube of the distance.
- 7. Find the components of velocity and acceleration of a particle referred to two-dimensional rectangular axes moving in any manner round the origin which is fixed.

If the axes Ox, Oy revolve with constant angular velocity w, and the component velocities of the point (x, y) parallel to the axes: re

$$\frac{a^3-b^3}{a^3+b^2}\omega y$$
, $\frac{a^3-b^3}{a^2+b^3}\omega x$,

prove that the point describes relatively to the axes an ellipse in the periodic time

$$\frac{\pi}{\omega}$$
. $\frac{a^2+b^2}{ab}$.

- 8. A particle moves in a plane under the action of a given central force. Find the differential equation of its path.
- A particle describes a circle with uniform angular velocity under a central force from the centre varying as the inverse nth power of the distance. Find the condition of the stability of this motion and the apsidal angle of a slightly disturbed orbit.
- 9. A particle is constrained to slide on a smooth curve which moves in any manner in its own plane. Find the equations of motion.
- A particle is placed in a smooth straight tube which is suddenly set rotating with uniform angular velocity w about a point O in its plane which is at a perpendicular distance a from the tube; shew that the reaction between the particle and the tube at time t is $maw^{\tau}(2\cosh wt 1)$ m being the mass of the particle and a its initial distance from O.
- 10. Define 'hodograph' and show how the equation of the hodograph can be found.

If the hodograph be a circle described with constant angular velocity about a point on its circumference show that the path is a cycloid.

11. On a wire in the form of a parabola, whose latusrectum is 4a and whose axis is vertical and vertex downwards, is a bead attached to the focus by an elastic string of natural length !a, whose modulus is equal to the weight of the bead. Show that the time of a small oscillation is

$$2\pi \sqrt{\frac{a}{g}}$$
.

THIRD PAPER

Examiners— { DR. SURENDRAMOHAH GANGULI, D.Sc. MR. M. GHOSH, M.Sc.

The questions are of equal value.

ANY SIX questions carry full marks.

1. Obtain the areal equation of a circle with respect to which the triangle of reference is self-conjugate and show that its centre is at the orthocentre of the triangle.

- A system of conics is drawn passing to through the vertices of the triangle of reference and also through the centroid. Prove that the locus of their centres is a conic touching the sides of the triangle at their mid-points.
- 2. If θ varies, prove that the point $\{\sin (A+\theta), \sin (B+\theta), \sin (C+\theta)\}$ describes a straight line. In the *trilinear* system, what are the points corresponding to $\theta=0^{\circ}, \pm 60^{\circ}, 90^{\circ}$?

Investigate the condition that a conic may be a rectangular hyperbola, and hence, or directly, prove that every conic through the *in*- and *ex*-centres of a triangle is a rectangular hyperbola.

- 3. With a given point O as centre a family of circles is drawn to cut a conic. Shew that the locus of the middle points of the chords of intersection is a rectangular hyperbola whose asymptotes are parallel to the axes of the conic and which passes through O and the centre of the conic.
- 4. Prive that the cross-ratio of the pencil formed by the four lines $y = m_1x$, $y = m_2x$, $y = m_3x$, $y = m_4x$ is

$$\frac{(m_1 - m_2 \cdot (m_1 - m_4)}{(m_1 - m_4) (m_3 - m_2)}$$

and show that this remains unchanged by the interchange of any two lines, provided that the other two are also interchanged.

Prove that one of the cross-ratios of the pencil formed by joining any point on an ellipse to the extremities of the latera recta is e.

- 5. Extend Plucker's definition of focus to a curve of any order and establish the following:—
- (1) The coaxid family of circles through two foci of a curve have two other foci as limiting points.
- (2) If four foci of a curve are concyclic, the curve has three other sets of four concyclic foci.
- 6. Establish Desargue's Theorem, namely, a straight line is cut in involution by a pencil of conics through four fixed points.

Apply the principles of projection to deduce that a system of coaxial circles is cut by a transversal in an envolution of which the double points are the points of contact of the circles of the system which touch the line.

State the reciprocal theorem.

7. Find the joint-invariants of two conics and examine the geometrical significance of the equations $\Theta=0$ and $\Theta'=0$.

If two triangles are self-conjugate with regard to any conic S'show that a conic can be described passing through their six vertices and another touching their six sides.

8. Show that the second polar of a point P on the Steinerian touches the Hessian at the corresponding point Q, and that the common tangent is the harmonic conjugate of PQ with respect to the tangents to the first polar of P at Q.

State the corresponding theorem in the case of a cubic curve.

Hence, or otherwise, prove that the tangents to the Hessian at two conjugate poles P. Q intersect on the Hessian at the point conjugate to the third point in which PQ intersects the Hessian again.

9. Show that by a proper choice of homogeneous co-ordinates the equation of a crunodal cubic can be reduced to the for $n(y^2 - 3x^2)z = x^3$.

Prove that the points of contact of tangents drawn from any point on 3x=2a to $a(x^2-y^2)=x^3$ he on a circle to the origin and that the centre of this circle lies on a fixed straight line.

10 Give a rough sketch of the curve $x^3+y^2=3axy$ and show that the curve possesses three inflexions all lying at infinity and that the real asymptote makes an angle of 45° with each nodel tangent.

Shew that every orunodal cubic can be projected into the above curve.

11. Obtain the equation of a trinodal quartic with nodes at the vertices of the triangle of references.

Show that the six intersections of the tangents at a node with the line joining the other two nodes lie on a conic and the six intersections of the tangents drawn from a no le with the line joining the other two nodes lie on a second conic having double contact with the first.

12. Define a bicircular quartic and obtain its Cartesian equation.

Establish the following :-

- (1) V bisire dar quartic has sixteen focilying by fours on four circles.
- (2) The sixteen cycle points lie by fours on four circles.

FOURTH PAPER

The questions are of equal value.

Candidates are required to answer SIX questions only.

1. Show that there are four effective constants in the general equation of a straight line in space and hence affirmed in existence of a single infinity of straight lines cutting three given curves

A straight line moves so as to intersect the line z=0, x=y; and the circles x=0, $y^2+z^2=r^2$; y=0, $z^2+r^2=r^2$. Prove that the equation to its locus is

$$(x+y)^{2} \{ r^{2} + (x-y)^{2} \} = r^{2} (x-y)^{2}.$$

Discuss the nature of the section of this surface by the plane x-y=0.

2. (a) Find the condition that the general equation of the second degree, viz.,

$$ax^{2} + by^{4} + cz^{2} + 2fyz + 2gzz + 2hxy + 2ux + 2vy + 2wz + d = 0$$

may define a cone, and consider the additional limitations under which the cone may admit of triads of orthogonal tangent planes.

(b) Construct the equation of the enveloping cone (2) of a point $P(x_1, y_1, z_1)$ with respect to the ellipsoid

$$\frac{z^2}{a^{\frac{n}{2}}} + \frac{y^2}{b^{\frac{n}{2}}} + \frac{z^2}{c^{\frac{n}{2}}} = 1.$$

Verify that the locus of P is a sphere or a quadric cone according as Z is provided with triads of orthogonal tangent planes or is composed of two planes.

3. Investigate the conditions for the conicoid

$$ax^2 + by^2 + cz^2 + 2fyz + 2gzx + 2hxy + 2ux + 2vy + 2wz + d = 0$$

to be (i) a paraboloid,

(ii) a surface of revolution.

By way of illustration identify the quadric

$$x^{9}+y^{2}+z^{4}-yz-zx-xy-3x-6y-9z+21=0$$

as a paraboloid of revolution and find the direction of its axis.

4. (a) Prove that the section of the quadric

$$ax^{2}+by^{2}+cz^{2}+2fyz+2gzx+2hxy=1$$

by the plane lx+my+nz=0 will be a circle if

$$\frac{bn^2 + cn^2 - 2fmn}{m^2 + n^2} = \frac{cl^2 + an^2 - 2gnl}{n^2 + l^2} = \frac{am^2 + bl^2 - 2hlm}{l^2 + m^2}.$$

(b) Ascertain the equation of the tangent plane (\mathbb{Z}) at an arbitrary point (u, θ) of the cylindroid (II)

$$x=u \cos \theta$$
,
 $y=u \sin \theta$,
 $z=c \sin 2\theta$.

and satisfy yourself that the section of II by \mathbb{Z} consists of a straight line and an ellipse whose projection on the plane z=0 is the circle

$$(x^2+y^2)\cos 2\theta - u(x\cos \theta - y\sin \theta) = 0.$$

5. Calculate the angle of intersection θ of the two generators which pass through an assigned point P of the hyperboloid

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$$

and deduce therefrom or prove independently that as θ is restricted to be O or $\frac{\pi}{2}$, the curve locus of P is a plane curve or a sphero-conic.

Establish the proposition that there are four (imaginary) positions of P, for each of which the two associated g-nerators are both co-directional and orthogonal.

Hence prove that the eight generators attached to the above four special positions of P, contain all the umbilies of the surface.

6. Work out the Cartesian equation of the osculating plane at an arbitrary point of a curve, whose parametric equations are given. It is possible to find a point of the osculating plane at which has four-pointic contact with the curve? If so, how?

Characterise (in a general way) some of the salient features of the quartic curve

$$x=t$$
,
 $y=t^2$,
 $z=t^2$.

and make sure that there exists one and only one plane of four-pointic contact.

Locate this plain along with its point of contact.

7. Substanciate the nine Frenet-Serret formulæ bearing on the theory of curves in space.

Prove that the criterion for a spherical curve is that the relation

$$\frac{\rho}{\sigma} + \frac{d}{ds} \left(\sigma \frac{d\rho}{ds} \right) = 0$$

should hold at every point on the curve.

8. Derive the differential equations of the lines of curvature of a surface in-

$$\begin{vmatrix} Edp+Fdq & Fdp+Gdq \\ Ldp+Mdq & Mdp+Ndq \end{vmatrix} = 0.$$

Prove that the surface defined by

$$\frac{x}{a} = \frac{p+q}{2}$$
,

$$\frac{y}{b} = \frac{p-q}{2}$$
,

$$z=\frac{pq}{2}$$
.

is a hyperbolic paraboloid of which the asymptotic lines are

$$p=c$$
 inst., $q=c$ onst.,

and the lines of curvature are

*
$$\sinh^{-1}\frac{p}{c} \pm \sinh^{-1}\frac{q}{c} = \text{const.},$$

where $c^2 = a^2 + b^2$.

9. Define the specific curvature at a point on a surface, and demonstrate clearly that its value depends colely on the fundamental magnitudes of the first order, viz., E, F, G and their derivatives.

For a surface given by

$$ds^2 = a^2 (dp^2 + \sinh^2 p \cdot dq^2)$$
.

establish the constancy of the Gaussian curvature.

10. Adopting the usual notation, prove that if the family of curves

$$\phi(p, q) = \text{const.}$$

be geodesic parallels, a sufficient condition is that ϕ should be a primitive of the partial differential equation

$$\Delta \phi = \frac{E\phi_2^2 - 2F\phi_2\phi_1 + G\Phi_1^2}{V^2} = 1.$$

If the arc element of a surface be of the form

$$ds^2 = (p^2 - q^2 + 1)(d\mu^2 + dq^2) - 2(p^2 - q^2 - 1)dpdq$$

prove that a system of geodesic pa allels is given by

$$p+q=const.$$

FIFTH PAPER

Examiners—{Mr. Hariprasanna Banerjee, M.Sc. S. C. Ghosh, M.A.

The questions are of equal value.

Full marks for ANY SIX questions.

1. (a) Apply Cauchy's Theorem to obtain a proof of the legitimacy, under certain conditions, of the well-known method of evaluating limits which appear in the indeterminate form $\frac{0}{0}$. State carefully the conditions which you suppose

to be satisfied.

(b) The function f(x) is defined to be equal to 0 for $x=0, \pm 1, \pm \frac{1}{2}, \pm \frac{1}{3}, \pm \frac{1}{4}$.

and to be equal to

$$x \sin \left(\frac{\pi}{x} \right) \sin \left\{ \pi/\sin \left(\frac{\pi}{x} \right) \right\}$$

for all other values of x. Show that f(x) is everywhere continuous, but does not possess a differential coefficient at an infinite number of points in the vicinity of the origin.

2. (a) Discuss the expansibility of

$$x^2 + e^{-(x-x_0)^{-2}} \sin (x-x_0)^{-1}$$

in powers of $x-x_0$ in the neighbourh od of x_0 . Do the second and higher differential coefficients of this function exist at x_0 ? Give full reasons.

(b) If f(x, y) be a function of the two variables x and y, show that $f_{xy} = f_{yx}$, provided that these two deribatives are continuous.

Show by an example that, if the above conditions is not satisfied, the partial differential coefficients f_{xy} , f_{yx} might both exist at some point and yet they may have different values there.

3. Given that $z=x+y\phi(z)$, show how the various coefficients in the expansion of F(z) in ascending powers of y can be obtained.

Find the first five terms in the expansion of one of the roots of the cubic

$$z^3 - az + b = 0$$

in ascending powers of b.

4. (a) If

$$u_1 = x_1 (1 - x_1^2 - x_2^2 - \dots - x_n^2)^{-\frac{1}{2}}, \dots, u_n = x_n (1 - x_1^2 - x_2^2 - \dots - x_n^2)^{-\frac{1}{2}},$$

show that the functional determinant

$$\frac{D(u_1, u_2, ..., u_n)}{D(x_1, x_2, ..., x_n)} = (1 - x_1^2 - x_2^2 - ... - x_n^{\frac{n}{2}})^{-1 - \frac{1}{2}n}.$$

(b) If $x=e^{v} \sec u, y=e^{v} \tan u$,

and ϕ is a function of x and y show that

$$\cos u \left(\frac{\partial^{3} \phi}{\partial u \partial v} - \frac{\partial \phi}{\partial u} \right) = xy \left(\frac{\partial^{3} \phi}{\partial x^{3}} + \frac{\partial^{3} \phi}{\partial y^{2}} \right) + (x^{2} + y^{3}) \frac{\partial^{3} \phi}{\partial x \partial y}.$$

5. Explain the method of Lagrangian Multipliers in the determination of the maxima and minima of a function of several independent variables connected by certain given relations.

Find the maximum and minimum radii vectors of the section of

$$(x^2 + y^2 + z^2)^2 = a^2x^2 + b^2y^2 + c^2z^2$$

bγ

$$lx+my+nz=0$$
.

- 6. (a) State and prove Darboux's theorem on Integration and point out its importance in the theory of Riemann Integration.
 - (b) If f(x) = 1, for all values of x in the interval (0, 1) except for
- $x=\frac{1}{2^n}$, (n=1, 2, 3,...) for which f(x)=0, show that f(x) is integrable in the sense of Riemann in (0, 1).

- 7. (a) State and prove the first law of the mean for Integrals and deduce the fundamental theorem of the Integral Calculus.
- (b) Find out whether the fundamental theorem is valid at the origin for the function

$$y = \cos \frac{1}{x}, \text{ for } x \neq 0,$$

$$y = 0, \text{ for } x = 0.$$

8. (a) Test for convergence the integral

$$\int_0^\infty x^{n-1}e^{-x}dx,$$

and determine its value when a > 1.

(b) With the usual notation, prove carefully that

$$B(m, n) = \frac{\Gamma(m) \Gamma(n)}{\Gamma(m+n)}.$$

9. (a) Obtain the value of

$$\iiint x^{\alpha} y^{\beta} z^{\gamma} (1-x-y-z)^{\delta} dx dy dz$$

over the interior of the tetrahedron formed by the co-ordinate planes and the plane lx + my + nz = 1.

(b) Prove that the area of the portion of the sphere $x^2+y^2+(z-c)^2=c^2$ contained within the paraboloid

$$2z = \frac{x^3}{a^3} + \frac{y^3}{b^3}$$
 is $4\pi c \sqrt{ab}$.

10. (a) Show that differentiation under the integral sign is allowable in the integral

$$\int_0^\infty \frac{dx}{x^3+a}, a>0$$

and hence show that the integral $=\frac{\pi}{2\sqrt{a}}$.

(b) State (without proof) the conditions which must hold in order that a function may be expansible in a Fourier series. Obtain the Fourier series for the function $x+x^2$ in the interval $-\pi < x < \pi$.

SIXTH PAPER

The questions are of equal value.

You are required to attempt the THIRD and the SEVENTH questions; full marks may be obtained by answering these and any Four of the remaining questions.

1. (a) What is the criterion that two differential equations should have a common primitive?

(b) Prove that the following equations satisfy the test for the existence of a common primitive, and determine such common primitive:—

$$y - xp = a(y^2 + p),$$

$$y - xp = b(1 + x \circ p); \quad \left(p \equiv \frac{dy}{dx} \right).$$

(c) Show that the primitive of the differential equation

$$(2x^2+1)p^2+(x^2+2xy+y^2+2)p+(2y^2+1)=0$$

is $c^{9}+c(x+y)+1-xy=0$. Obtain the singular solution and explain the significance of the irrelevant factors that present themselves.

- 2. Solve any three of the following equations:
 - (a) $(D+C)^*u = \cos ax$.

(b)
$$x^4 - \frac{d^4y}{dx^4} + 6x^3 - \frac{d^3y}{dx^5} + 4x^2 - \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} - 4y = x^2 + 2 \cos(\log x)$$
.

(c)
$$\frac{d^2y}{dx^2} - 2y = 4x^2e^{x^2}$$
.

(d)
$$\frac{d^2y}{dx^2} + x\frac{dy}{dx} - y = (2 + x^2 - x \cot x) \csc x$$
.

3. Solve any three of the following :-

(i)
$$\frac{d^2y}{dx^2} + \cot y + 1 - \left(\frac{dy}{dx}\right)^2 = 0.$$

(ii)
$$\left(\frac{dy}{dx} + y^2\right) \sin x + 2y(1-xy) \cos x = 0$$
.

(iii)
$$x^* \frac{d^2y}{dx^2} = Ay$$
, A being any constant.

(iv)
$$x(y^2+z)p-y(x^2+z)q=z(x^2-y^2)$$
.

4. (a) Solve the equation :-

$$(y^2+yz)dx+(xz+z^2)dy+(y^2-xy)dz=0.$$

(b) Obtain a solution of the equation

$$a(b-c)x dy dz+b(c-a)y dz dx+c(a-b)z dx dy=0$$

consistent with the equation

$$ax^2 + by^2 + cz^2 = 1.$$

Interpret geometrically.

Find the general integral of

$$y^2q = (p-1)(pxy-p+1)$$

and determine whether it includes the solution

$$z = x - y + 2\sqrt{1 - xy}.$$

6. (a) By the principle of duality or otherwise, solve the equation $p^2r + 2pqs + q^3t = (xp + yq)(rt - s^3).$

(b) Solve the equation :-

$$x^{3} \frac{\partial^{3} u}{\partial x^{2}} + 2xy \frac{\partial^{3} u}{\partial x \partial y} + y^{3} \frac{\partial^{3} u}{\partial y^{2}} = (x^{9} + y^{3})^{\frac{5}{3}}$$

7. Defining $P_n(\mu)$ as that solution of the differential equation

$$(1-\mu^2)\frac{d^2y}{d\mu^2}-2\mu\frac{dy}{d\mu}+n(n+1)y=0,$$

which equals 1 when $\mu = 1$, prove that

$$P_n(\mu) = \frac{1}{2^n n!} \frac{d^n}{d\mu^n} (\mu^2 - 1)^n.$$

Hence, or otherwise, prove that all the roots of $P_n(\mu) = 0$ are real and different and lie between -1 and +1.

8. Establish the orthogonal property of P_n , viz., that

$$\int_{-1}^{1} P_n(\mu) P_m(\mu) d\mu = 0, \text{ if } m \neq n.$$

Prove that

$$\frac{8}{\pi} \sin^{-1} x = 3P_1(x) + 7. \left(\frac{1}{4} \right)^2 \cdot P_3(x) + 11. \left(\frac{1 \cdot 3}{4 \cdot 6} \right)^2 P_5(x) + \dots$$

$$+ (4m+3) \cdot \left\{ \frac{1 \cdot 3 \dots (2m-1)}{4 \cdot 6 \dots (2m+2)} \right\}^2 P_{2m+1}(x) + \dots$$

9. Define $Q_n(\mu)$; use your definition to prove that, when $\mu > 2$,

$$Q_n(\mu) = \frac{n!}{3 \cdot 5 \cdot 7 \dots (2n+1)} \mu^{-n-1} F\left(\frac{n+1}{2}, \frac{n+2}{2}, \frac{3}{2} + n, \frac{1}{\mu^2}\right).$$

10. Prove any two of the following: -

(i)
$$\frac{dP_n}{du} = (2n-1)P_{n-1} + (2n-5)P_{n-3} + (2n-9)P_{n-5} + \dots$$

(ii)
$$Q_n(\mu) = \int_0^{\infty} \frac{d\psi}{\{\mu + \sqrt{\mu^2 - 1} \cosh \psi\}^{n+1}}$$

(iii)
$$P_n(\cos \theta) = F\left(n+1, -n, 1, \sin^2 \frac{\theta}{2}\right)$$
.

$$(iv) \mid P_{n+1}(\cos\theta) - P_{n-1}(\cos\theta) \mid < \frac{C}{\sqrt{n+1}}, \text{ for } 0 \leq \theta \leq \pi,$$

where C is a positive quantity independent of n.

11. Define $P_n^m(\mu)$.

Prove that

$$P_n \{ \cos \theta \cos \theta' + \sin \theta \sin \theta' \cos (\phi - \phi') \} = P_m(\cos \theta) P_n(\cos \theta')$$

$$+2\sum_{m=1}^{m=n}\frac{(n-m)!}{(n+m)!}P_n^n(\cos\theta)P_n^m(\cos\theta')\cdot\cos m(\phi-\phi').$$

12. (a) Apply the method of Gauss and Prasad to expand $x^5 + y^5 + z^5 + 4x^3(y^2 + z^2) + 4y^3(z^2 + x^2) + 4z^3(x^2 + y^2)$ in surface harmonics, x, y, z being the co-ordinates of a point on the unit sphere.

'b) Prove that, for
$$m \le n-1$$
,

$$(n-m+1)P_{n+1}^{m}(\mu)-(2n+1)\mu P_{n}^{m}(\mu)+(n+m)P_{n-1}^{m}(\mu)=0.$$

SEVENTH PAPER

(THEORY OF FUNCTIONS OF A REAL VARIABLE—FIRST PAPER)

- [N.B.—You are required to attempt the SEVENTH and EIGHTH questions. Full marks may be obtained by answering these questions and ANY FOUR of the remaining questions.]
- 1. Discuss briefly the advantages and disadvantages of Dedekind's and Cautor's theory of irritional numbers, and establish the equivalence of their definitions of irrational numbers.
- 2. Explain how a set of the first species can be decomposed into a finite number of isolated sets. Examine whether the same is possible when the set is (i) enumerable, (ii) of the first catagory, (iii) of the second species.

Is a set of the second species everywhere dense? Give examples in support of your answer.

3. P is a point of a non-dense perfect set defined in (a, b). Shew that P is a limiting point either on one or on both sides. To which of these two types do the end-points a and b belong? How do you modify these results when the perfect set is everywhere dense?

Specify a point in Cantor's non-dense perfect set, which is a limiting point on both sides.

- 4. How do you define the measure of a given set E? If E_1 and E_2 are two measurable sets, shew that the set M (E_1 , E_2) is also measurable. Employ this result to prove the more general theorem.
- If E_1 , E_2 , E_n ,..... be an enumerable infinity of measurable sets, then will the set $M(E_1, E_2, E_n,)$ be also measurable?
 - 5. Construct the following:-
- (i) A set of the first species whose n^{ih} derivate consists of n different points. (A numerical example should be given.)
- (ii) A set of the first catagory which is non-enumerable and everywhere dense.
 - (iii) A non-dense set whose measure is $\frac{1}{2}$.
- 6. Starting from the definition of a continuous function, prove that if f(x) is continuous at every point of a closed interval (a, b), then (a, b) can be divided into a finite number of pieces in each of which the oscillation of f does not exceed an arbitrary assigned positive number e. A function f(x) is defined by

$$f(O) = O$$
; $f(x) = x \sin \frac{1}{x}$, $(x \neq 0)$.

Prove that f(x) is continuous in (-1, 1). Find an upper bound for the absolute value of f'(x) in $\frac{1}{2} \in \le x \le 1$, and hence (or otherwise) shew that the number of pieces in the division described above need not exceed $4e^{-x} + 2$.

7. Find the four derivates of

$$\frac{x}{\sqrt{2}}\cos\left(\frac{1}{|2|}\log\frac{1}{x^2}+\frac{\pi}{4}\right)$$

at (O, O), and show that the derivates on the right and those on the left are the same.

Prove carefully the following generalization of the mean-value theorem: If in a given interval (a, b) a function f(x) is defined to be finite and continuous, the end-points being included, then, for every pair of points $(x_0, x_0 + h)$ of (a, b), the end points being included,

$$f(x_{\bullet}+h)=f(x_{\bullet})+hf'(x_{\bullet}+\theta h), 0<\theta<1,$$

provided that at every point maide (a, b), the ends being excluded, there is no distinction of right and left with respect to the four derivates at that point so that

$$D^+f(x) = D^-f(x)$$
 and $D_+f(x) = D_-f(x)$.

8. Establish any two of the following properties of the function

$$f(x) = \sum_{n=0}^{\infty} \frac{1}{2^n} \cos (13^n \pi x) :$$

- (i) f(x) has no differential coefficient, finite or infinite, for any value of x;
 - (ii) $x=\frac{1}{2}$ is a limiting point of the zeros of f(x);
 - (iii) for every value of x of the form $\frac{M}{19m}$. M and m being positive

integers, f'(x+0) and f'(x-0) are both numerically infinite but of opposite signs;

(iv) for every value of x of the form $\frac{M+\frac{1}{2}}{13m}$,

$$D^+ f(x) = D^- f(x) = +\infty$$
,
 $D_+ f(x) = D_- f(x) = -\infty$.

- 9. Prove the following :-
- (a) A function of limited variation can have only discontinuities of the first kind.
- (b) If a function is absolutely continuous in an interval then it is also of limited variation in that interval, but the converse is not true.
 - 10. (a) Prove that, if the partial differential coefficients

$$\frac{\partial f}{\partial x}$$
, $\frac{\partial f}{\partial y}$

exist at all points in the neighbourhood of (x_0, y_0) and

$$\frac{\partial}{\partial y} \left(\frac{\partial f}{\partial x} \right)$$

is continuous in (x, y) at (x_0, y_0)

$$\frac{\partial}{\partial y}\left(\frac{\partial f}{\partial x}\right) = \frac{\partial}{\partial x}\left(\frac{\partial f}{\partial y}\right).$$

- (b) Prove any one of the following:-
 - (i) At (0, 0) both the mixed differential coefficients of the second order of

$$\int_{-\infty}^{y} du \int_{-\infty}^{x} \cos \left\{ \left(\log \frac{1}{t^{2}} \right) \log \left(\frac{1}{u^{2}} \right) \right\} dt$$

exist and equal zero;

 at (0, 0) both the mixed differential coefficients of the second order of

$$\int_{\cdot}^{y} du \int_{\cdot}^{z} \cos \left\{ \log \left(\log \frac{1}{t^{3}} + \log \frac{1}{u^{3}} \right) \right\} dt$$

are non-existent.

EIGHTH PAPER

(THEORY OF FUNCTIONS OF A REAL VARIABLE—SECOND PAPER)

The questions are of equal value.

Full marks for ANY SIX questions.

- 1. (a) If $\eta_1, \eta_2, \eta_3, ...$ be an enumerable set of non-overlapping intervals contained in (a, b) in descending order of length, and f(x) be a function of (x) integrable (R) in (a, b), prove that the sum of the integrals of f(x) taken through $\eta_1, \eta_2, \eta_3, ...$ converges to a definite finite limit as n is indefinitely increased.
- (b) If a sequence of functions $\{f^*(x)\}$, all integrable (R), in the interval (a, b) converges uniformly in that interval to the bounded function f(x), prove that f(x) is integrable (R), and

$$\int_{a}^{b} f(x)dx = \lim_{n \to \infty} \int_{a}^{b} f_{n}(x)dx.$$

From this theorem deduce another giving sufficient conditions for term by term integrability of a series.

2. If f(x) be a summable function in the interval (a, b), prove that the indefinite integral

$$\int_{-x}^{x} f(x)dx$$

is continuous and is of total bounded variation in (a, b). Moreover it possesses a differential coefficient f(x) almost everywhere in (a, b).

3. (a) Distinguish between a double integral and a repeated integral.

In the rectangle bounded by x=0, x=1, y=0, y=1, a function f(x, y) is defined as follows:—

f(x, y) = 1, for all rational values of x,

f(x, y) = 2y, for all irrational values of x.

Show that the repeated integral

$$\int_{a}^{b} dx \int_{a}^{b} f(x, y) dy$$

exists but the double integral

$$\int f(x, y) \ d(x, y)$$

does not exist.

- (b) Explain what is meant by the double intergal of a function f(x, y) over an infinite domain.
- 4. If (-R, R) be the interval of convergence of a powerseries $\sum a_n x^n$ whose sum-function is S(x), prove that

(i)
$$\sum \frac{d}{dx} a_n x^n = \frac{d}{dx} S(x)$$
.

(ii)
$$\sum_{\alpha} a_{\alpha} x^{\alpha} dx = \int_{-\infty}^{\infty} S(x) dx$$

in the interval (-R, R).

- 5. Obtain Taylor's expansion of f(x, y) and state accurately the restrictions under which it holds true. Examine the function $f(x, y) = \sqrt{|xy|}$ and ascertain if it is expansible in Taylor's series at (0, 0).
- 6. Define simply-uniform convergence and frame an example of a series which converges simply uniformly in the interval (0, 1) and prove your statement.
- If the functions $u_1(x)$, $u_2(x)$, $u_3(x)$, ... be all continuous at a point ξ of the domain E, but not necessarily elsewhere, show that the condition of simple uniform convergence of the series $\Sigma u_n(x)$ in some neighbourhood of ξ is sufficient to ensure that the sum-function S(x) is continuous at ξ .
 - 7. If F(y) be defined by the relation

$$F(y) = \int_{\Phi_{\bullet}(y)}^{\Phi_{\bullet}(y)} f(x, y) dx, \ a \le x \le b, \ c \le y \le d,$$

where $\phi_1(y)$, $\phi_3(y)$ are continuous and f(x,y) is continuous in (x, y) together, prove that F(y) is continuous.

Discuss the continuity of the integral

$$\int_{y}^{y^2} \frac{dx}{y^2+x^2}, y>0.$$

- 8. For Feier's continuous function whose Fourier series diverges at the origin, verify Fejer's theorem on summability (C, 1).
- 9. Prove Hardy's theorem that if $\exists u_n$ is summable (C, 1) and $u_n = O\left(\frac{1}{n}\right)$, $\exists u_n$ is convergent.

Hence show that the Fourier series converges within any interval for which the variation of f(x) is bounded.

10. Prove that if f(x) is summable

$$\lim_{\tau=0} \int_{-\tau}^{\pi} |f(u+\tau)-f(u)| du=0.$$

Deduce Riemann-Lebesgue theorem that if f(x) is a summable function in (a, β) , $\lim_{n \to \infty} a = 0$, and $\lim_{n \to \infty} b_n = 0$, where a_n and b_n are the Fourier $n = \infty$ $\pi = \infty$ coefficients corresponding to f(x).

11. Prove Parseval's theorem that, under certain conditions to be specified,

$$\int_{-\pi}^{\pi} \{f(x)\}^2 dx = \pi \left\{ \frac{1}{2} a_0^2 + \sum_{n=1}^{\infty} (a_n^2 + b_n^2) \right\},$$

where a_n and b_n are the Fourier coefficients of f(x). Deduce that

$$\int_{-\pi}^{\pi} f(x)F(x)dx = \pi \left\{ \frac{1}{2} a_n A_0 + \sum_{n=1}^{\infty} (a_n A_n + b_n B_n) \right\},\,$$

where A_n , B_n are the Fourier coefficients of F(x).

- 12. (a) Give, without proof, a short account of the different sufficient conditions for summability (C,0) of the Fourier series corresponding to a given function.
- (b) Indicate, without proof, Prasad's line of work in connection with summability (C, 1) of functions having a discontinuity of the second kind.

SEVENTH PAPER

(Group B)

(THEORY OF FUNCTIONS OF A COMPLEX VARIABLE—FIRST PAPER)

[N.B. —The questions are of equal value. Full marks for ANY BIX questions.]

1. Show how to obtain by a geometrical construction on the Argand diagram (i) the product, (ii) the quotient of two given complex numbers.

Prove the following :--

- (a) $|z_1+z_2|^2+|z_1-z_2|^2=2\{|z_1|^2+|z_2|^2\}.$
- (b) If the points z_1, z_2, z_3 are the veritices of an equilateral triangle, $z_1^2 + z_2^2 + z_3^2 = z_1 z_2 + z_2 z_3 + z_3 z_3.$

2. What is meant by saying that a function f(z) is holomorphic in a given region D?

Use of your answer to the above to prove that, if f(z) is equal to P(x, y) + iQ(x, y) P and Q being real functions, then, in order that f(z) be holomorphic in D, it is necessary that the equations

$$\frac{\partial P}{\partial x} = \frac{\partial Q}{\partial y}, \quad \frac{\partial P}{\partial y} = -\frac{\partial Q}{\partial x}$$

should hold at every point of D.

Discuss briefly the question of the validity of the above partial differential equations being sufficient for f(z) being holomorphic.

3. Give briefly (but carefully) an outline of each of the two proofs of Cauchy's fundamental integral theorem given by Goursat.

State (without proof) Moren's theorem.

4. Apply Contour integration to evaluate any two of the following:-

(i)
$$\int_{0}^{\infty} e^{-x^{2} \cos 2bx \, dx};$$

(ii) $\int_{0}^{\infty} \frac{\cos mx \, dx}{1+x^{2}+x^{4}}, m>0;$
(iii) $\int_{0}^{\infty} \frac{\tan x}{x} \, dx;$
(iv) $\int_{0}^{\infty} \frac{x^{2} dx}{x^{2}+x+1};$
(v) $\int_{0}^{\infty} \frac{e^{x} dx}{1+e^{x}}, 0 < a < 1.$

5. Explain the term conformal representation, and show that, if
$$Z$$
 is an analytic function of z in a given domain, the angle between two curves in the plane of the variable z is equal to the angle between the corresponding curves in the plane of the variable Z

Determine the area in the Z-plane which corresponds to the upper half of the z-plane when

$$Z=\frac{z^2+a^2}{2z},$$

and show that the area enclosed by a circle passing through the points $Z = \pm a$ corresponds to the area enclosed by the arcs of two orthogonal circles which pass through the points.

6. Prove that it is possible to construct, in the form of a product of primary factors (each having one singularity and at most one zero), a one-valued analytic function of z, which is finite for all finite values of z, and vanishes at assigned points $z = a_n$, which are either finite in number or such that

$$\lim |a_{\epsilon}| = \infty.$$

A one-valued analytic function has as its zeros

$$0, \pm \omega, \pm 4\omega, \pm 9\omega$$
.....to infinity;

prove that the simplest function determined thereby can be expressed in the form

$$\sin \ \left\{\pi \left(\frac{z}{\omega}\right)^2\right\} \ \sin \ \left\{i\pi \left(\frac{z}{\omega}\right)^{\frac{1}{2}}\right\}.$$

7. Prove that the function

$$f(z) \equiv \sum_{n=1}^{\infty} \frac{z^{2^{n}}}{n^{n}}$$

has the unit circle as its natural boundary, although f(z) and all its differential coefficients are existent and finite at every point of the circle.

8. State carefully (but without proof) Picard's theorem about a function having an essential singularity.

Prove that the equation

$$e^{\frac{1}{s}} = A$$
, $(A \neq 0)$

has an infinite number of roots with absolute values less than ρ , however small ρ may be.

Consider the equation

$$\sin \frac{1}{z} = A_1$$

near z=0 and state if A_1 has any exceptional value.

9. Prove carefully that the increases in the amplitude of any function f(z) along any closed path is 2_{11} times the number of the roots of the equation f(z) =0 enclosed by the contour.

Find how many roots lie in each quadrant in the case of each of the equations

$$z^4 - 2z^3 + 4z + 12 = 0$$
.
 $z^4 + 2z^3 - 4z + 12 = 0$.

10. Prove that the series

$$\sum_{n=1}^{8} (1+n^2x^2)^{-1}(1+n^2x)^{-1}$$

converges for all real values of x but represents a function which cannot be expanded in positive powers of x.

Shew further that when x lies between 1 and $\sqrt{2}$ the function can be expanded in powers of x and x^{-1} .

11. Prove that the relation

$$Z = \frac{1+iz}{i+z}$$

transforms part of the x-axis between the points z=1 and z=-1 into a semicircle passing through the points z=1 and z=-1.

Find all the figures which can be obtained from the initially selected part of the x-axis by successive applications of the above transformation.

EIGHTH PAPER

(THEORY OF FUNCTIONS OF A COMPLEX VARIABLE—SECOND

PAPER

Examiner-Mr. Hariprasanna Banerjee, M.Sc.

The questions are of equal value,

Full marks will be given for SIX questions.

1. Explain what is meant by a Riemann surface, How are the branch points determined? Describe the Riemann surface appropriate to the relation

$$w=z^{\frac{1}{2}}+(z-1)^{-\frac{1}{2}}$$

and discuss fully the variations in w when the z point describes a path surrounding both the origin and z=1.

2. Investigate the manner in which the value of the integral

$$z = \int_{\xi}^{w} \frac{d\xi}{\sqrt{\xi(\xi^{2}-1)}}$$

depends upon the path of intergration in the plane, Justify carefully the statement that the relation defines w as a doubly periodic function of z. What are the values of the periods?

3. Define Legendre's complete elliptic integrals, and apply Landen's transformation to show that

$$F\left(k,\frac{\pi}{2}\right) = \frac{2}{1+k'} F\left(\frac{1-k'}{1+k'},\frac{\pi}{2}\right).$$

Show that

$$\int_{0}^{1} \frac{dx}{\sqrt{x(1-x)(3+x)}} = 4(2-\sqrt{3}) \text{ F } \left(\frac{2-\sqrt{3}}{2+\sqrt{3}}, \frac{\pi}{2}\right).$$

4. Define the Jacobian Theta series, and state briefly their general functional character.

Prove that

$$\theta_3^2$$
, $\theta_3^2(z) = \theta_3^2$, $\theta_3^2(z) + \theta_4^2$, $\theta_4^2(z)$.

5. Explain how the elliptic functions are used to elucidate the properties of plane non-unicursal cubic curves.

Prove that the roots of the quintic equation

$$x^5 + ax + b = 0$$

are $g(u_1)$, $g(u_2)$,..., $g(u_2)$, where $u_1, u_2,...u_3$ are the five zeroes of the elliptic function

$$\mathfrak{E}(u) \, \mathfrak{E}'(u) - \frac{ia}{b^{\frac{1}{2}}} \, \mathfrak{E}(u) - 2ib^{\frac{1}{2}}.$$

6. Prove Jacobi's theorem that a single-valued analytic function cannot have more than two independent periods.

Deduce that such a function cannot have two independent periods whose ratio is real.

7. Prove that an elliptic function and its differential coefficient are connected by an algebraic relation.

Deduce that if the elliptic function f(u) is of the second order, with distinct poles, $\{f'(u)\}^2$ is a quartic in f(u), but if the poles are coincident, the quartic reduces to a cubic.

8. When is a function said to possess on algebraic addition theorem. Investigate the algebraic addition theorem for $\mathfrak{C}(z)$.

Show that every elliptic function has an algeebraic addition theorem.

9. (a) With the usual notation establish the relation

$$w'\eta - w\eta' = i\,\frac{\pi}{2}\;.$$

(b) Show that

$$2\zeta(2u) + 2\eta + 2\eta' = \zeta(u) + \zeta(u+w) + \zeta(u+w') + \zeta(u+w+w').$$

10. (a) Prove that

$$\frac{\mathfrak{E}'(u+w_1)}{\mathfrak{E}'(u)} = -\left\{\frac{\mathfrak{E}_{\frac{1}{2}}(w_1) - \mathfrak{E}(w_1)}{\mathfrak{E}(u) - \mathfrak{E}(w_1)}\right\}^2.$$

(b) Express

$$\frac{1+cn(u+v)cn(u-v)}{1+dn(u+v)dn(u-v)}$$

as a function of sn2u and sn2v.

11. Distinguish between the three different kinds of Abelian integrals and explain what is meant by the periodicity-moduli of the integrals.

Show that the difference of any two values which such an intergral can have is equal to the sum of integral multiples of its moduli. Show also that the integrals of the third kind have in addition other moduli.

SEVENTH PAPER

(THEORY OF NUMBERS-FIRST PAPER)

Examiner-Dr. Abanibhushan Datta, M.A., Ph.D.

The questions are of equal value.

Full marks for ANY SIX questions.

1. Show that if the functions f(n) and F(n) be so related that $F(n) = \Sigma f(d)$,

where the summation extends to all divisors d of n,

then

(i)
$$\sum_{r=1}^{n} F(r) = \sum_{r=1}^{n} f(r) \left[\frac{n}{r} \right];$$

and

(ii)
$$\sum_{n=1}^{\infty} \frac{F(n)}{n^k} = \zeta(k) \cdot \sum_{n=1}^{\infty} \frac{f(n)}{n^k};$$

where [m] denotes the greatest integer contained in m, and $\zeta(k)$ is Riemann's Zeta function.

2. A region D in the plane of xy is bounded by the lines x=1, y=1. xy=n. Prove that the number of points lying inside D or on its boundary, and having integral co-ordinates, is equal to each of the functions

(i)
$$\begin{bmatrix} \frac{n}{1} \end{bmatrix} + \begin{bmatrix} \frac{n}{2} \end{bmatrix} + \dots$$
;

(ii)
$$d(1) + d(2) + \dots + d(n)$$
;

where d(m) is the number of divisors of m.

Prove that

$$\begin{array}{c}
L \\
n \longrightarrow \infty
\end{array}$$

$$\frac{d(1) + d(2) + \dots + d(n)}{n \log n} = 1.$$

3. Discuss the congruence $x^2 \equiv a \pmod{n}$, determining necessary and sufficient conditions for the existence of roots.

If n is the product of r odd primes, prove that the number of roots is either zero or 2^r , and show how this result must be modified when n is even.

Solve completely

$$x^3 \equiv 13 \pmod{17^3}$$
.

4. Show that if q and q' are prime to each other, and if p and p' run through complete sets of residues to moduli q and q' respectively, then pq' + p'q runs through a complete set of residues to modulus qq'.

Show also that if p and p' run through only the residues to moduli q and q' which are prime to q and q' respectively, then pq' + p'q runs through a similar set for the modulus qq'.

5. Prove that if p is an odd prime the roots of

$$x^{\frac{1}{2}\binom{p-1}{2}} \equiv 1 \pmod{p}$$

are quadratic residues of p and also of 2p.

If q is any odd number not divisible by the (odd) prime p, and if m is the sum of the greatest integers contained in

$$\frac{q}{p}, \frac{2q}{p}, \dots, \frac{\frac{1}{2}(p-1)q}{p},$$

$$q^{\frac{1}{2}(p-1)} \equiv (-1)^m \pmod{p}.$$

then

6. Prove that to every positive divisor t of $\phi(p)$ there appertain $\phi(t)$ integers with respect to the modulus p.

Show that

$$\phi(1) - \frac{x}{1+x^{\frac{1}{2}}} - \phi(3) - \frac{x^{\frac{3}{2}}}{1+x^{\frac{1}{2}}} + \phi(5) - \frac{x^{\frac{5}{2}}}{1+x^{\frac{1}{2}}} \dots ad inf. = \frac{x(1-x^{\frac{5}{2}})}{(1+x^{\frac{5}{2}})^{\frac{3}{2}}}.$$

7. If a^x-1 is divisible by n when x=n-1 but not when x is a factor (n-1), then n is a prime. Prove this.

If p is a prime 4n + 1, show that (2n)! is a root of

$$x^2 \equiv -1 \pmod{p}$$
.

If a is prime to $M + IIp_i^{n_i}$, and $a^M \equiv a \pmod{M}$, and a belongs to the exponent $e_i \pmod{p_i}$, then

$$\frac{M}{p_i^{n_i}} \equiv 1 \pmod{e_i}, a^{p_k} \equiv a \pmod{p_k^{n_k}} \text{ for every } i.$$

8. Give a rigorous proof of Legendre's Law of Reciprocity.

Has the congruence $x^* \equiv 1135 \pmod{2311}$ roots?

9. Prove that -3 is a quadratic residue of any prime p=3n+1 and a non-residue of any odd prime 3n+2. Hence find the primes of which +3 is a quadratic residue.

Solve $x^* \equiv 9 \pmod{2^*, 13^3, 7^3}$.

10. Solve by Gauss's method of exclusion

$$x^2 \equiv 14 \pmod{103}$$
.

If $\begin{pmatrix} a & \beta \\ \gamma & \delta \end{pmatrix}$ is a proper automorph of (a, b, c), show how to determine the values of a, β, γ, δ .

EIGHTH PAPER

(THEORY OF NUMBERS-SECOND PAPER)

Examiners— { Mr. Manoranjan Gupta, M.Sc. Prof. A. Weil, D Sc.

The questions are of equal value,

[N.B.—Full marks for Questions 1 and 5 and ANY FOUR of the remaining questions.]

1 Express all solutions of the equation

$$t^2 - Du^2 = \sigma^2$$

in terms of its fundamental solution and shew how an infinity of solutions of the equation

 $ax^2 + 2bxy + cy^2 = m$

can be deduced from a knowledge of one of them and of the solution of the Pell's equation $t^2 - Du^2 = 1$, where $D = b^2 - ac$.

2. Explain what you mean by the class of a given determinant D. Obtain the following formula

$$h = \sum_{n=1}^{\frac{1}{2}(P^{-1})} \binom{n}{p},$$

where h denotes the number of pro-primitive classes for the negative determinant $D=-P\ge 1\pmod 4$ and P centains no square factor. Work out the case for D=-15

3. Shew that r^k is a root of the polynomial R(x) if r is a root, it being

given that $r = e^p$ and p is an odd prime and k any integer relatively prime to p. If, moreover, the polynomial R(x) is irreducible, shew that it reduces to

the cyclotomic expression $\frac{x^p-1}{x-1}$.

Construct the equation whose roots are the Gauss's periods for any odd prime p.

4. Prove that two equivalent forms belong to the same genus.

If (a, b, c) is a pro-primitive form of determinant $D \equiv 2 \pmod{8}$, the odd integers primitively representable by it are all $\equiv \pm 1 \pmod{8}$ or $\equiv \pm 3 \pmod{8}$. Prove this.

- 5. Obtain the period of the form (3, 1, -4) of determinant 13 and thence develop its principal root into a simple recurring continued fraction. Account for the peculiarity that in this case the number of partial quotients in the period of the continued fraction is half the number of forms in the period of (3, 1, -4). State the necessary and sufficient condition in order that it may be so for a given determinant D.
- 6. When are two binary quadratic forms said to be adjacent? Shew that two such forms are properly equivalent. Point out their importance in the theory of equivalence of forms.

Obtain a reduced form equivalent to each of the forms (30, -53, 94),

(-46, 29, -18).

- 7. When is a form of positive determinant said to be reduced? Prove that two such forms belong to the same period if they are properly equivalent.
- 8. Determine the total number of possible genera for the various forms of a determinant D.

Exhibit the different pro-primitive genera for D = -95.

9. If K, K', K'' denote three classes whose divisors are prime in pairs, prove that

$$K(K'K'') = K'(K''K) = K''(KK')$$

where the classes in the brackets are compounded first.

If M denotes any pro-primitive class, show that there exists a positive integer h, the same for all classes such that $M^h = 1$.

10. Define an ambiguous class. If A denotes a pro-primitive ambiguous class, prove that $A^3 = 1$. Determine the total number of pro-primitive ambiguous classes for the determinant $D \equiv 0 \pmod{8}$ and point out its relation with the total number of genera for the same determinant.

SEVENTH PAPER

(THEORY OF GROUPS-FIRST PAPER)

The questions are of equal value

Candidates are required to answer six questions only, one of which must be Question 3.

1. (a) If $ba=a^2b^2$, prove that

$$bab^2a = (a^2b)^{\prime\prime}(bab^2a)b^{\prime\prime}$$
;
 $(ba)^2 = (a^4b)^n(ba)^2(ab^4)^n$.

(b) Define the inverse of an element and prove that if a is inverse of b, then b is also inverse of a.

Explain clearly the method of finding the inverse of a circular permutation.

If $a^a = b^a = 1$, prove that ab and ba are inverse to each other.

2. (a) Prove that $(b^{-1}ab)' = b^{-1}a'b$, t being a positive integer.

If $b^{-1}ab = a^{\lambda}$, prove that under certain conditions

$$b^{-y}a^xb^y=a^{xk^y}$$

State the restrictions, if any, imposed on x, k, and y.

(b) Prove that the transform of a permutation S by a permutation T is found by performing the permutation T on the cycles of S.

Verify the truth of the above proposition by taking

$$S = \begin{pmatrix} 12345678 \\ 53172846 \end{pmatrix}$$
$$T = \begin{pmatrix} 12345678 \\ 74658312 \end{pmatrix}$$

3. (a) If (S) denotes a transposition and

$$\equiv \triangle \begin{bmatrix} 1, & x_1, & x_1^{-1}, & \dots, & x_1^{n-1} \\ 1, & x_2, & x_2^{-2}, & \dots, & x_2^{n-1} \\ 1, & x_1, & x_3^{-3}, & \dots, & x_3^{n-1} \\ & \dots & \dots & \dots & \dots \\ 1, & x_n, & x_n^{-2}, & \dots, & x_n^{n-1} \end{bmatrix}$$

prove that

odd.

Hence or otherwise establish the theorem :-

"In whatever way a given permutation is expressed as a product of transpositions, the number of transpositions is either always even or always

(h) Them that the appetitutions with matrices

are permutable.

(c) Explain what is meant by Invariant of a Group.

If $f(x_1, x_2, \ldots, x_m)$ is an invariant of G, prove that $f(\phi_1, \phi_2, \phi_m)$ is an invariant of $T^{-1}GT$, where

$$x_{i}' = \phi_{i}(x_{1}, x_{2}, \ldots, x_{m}),$$

(i=1, 2, 3,, m) is the substitution T^{-1} .

4. (a) Explain what is meant by isomorphic groups and show that the groupof circular permutations

is isomorphic with the substitution group

$$x'=x, \frac{1}{1-x}, \frac{x-1}{x}, \frac{1}{x}, \frac{x}{x-1}, 1-x.$$

(b) If G and Γ are isomorphic groups, prove that the elements of G corresponding to identity in Γ from a normal subgroup.

Hence establish the proposition :-

- If G and Γ are isomorphic groups and L of order l is the subgroup formed by the elements of G corresponding to identity in Γ , l elements of G correspond to each element of Γ .
- 5. (a) If the order of a group is divisible by a number τ and α is an element not normal in it, prove that the number of elements whose τ^{th} power is conjugate to α is a multiple of τ .

State the general theorem of which this is a particular case,

To whom is the general theorem due?

- (b) Prove that the alternating group of degree m is simple unless m=4.
- 6 (a) Explain Euler's construction for the composition of two rotations and prove that every odd number of successive reflexions is equivalent to three successive reflexions.
 - (b) Define a fractional linear substitution and show how to find its poles.

If α and β are the poles of

$$S \equiv \left(x' = \frac{ax+b}{cx+d}\right),$$

where

$$ad-bc=1$$
, $a+d=2\cos\phi$.

prove that a and B have the values

$$\frac{1}{2c} \{a-d\mp 2i \sin \phi\}, i \text{ denoting } \sqrt{-1}.$$

7. (a) Define an independent set of generators of a group.

Show that

$$a^4 = b^4 = 1$$
, $ba = a^2b^3$

is the same abstract group as

$$g^4 = h^5 = 1$$
, $hg = gh^4$.

- (b) Prove that two Abelian groups with the same invariants are simply isomorphic.
- 8. (a) If $c=a^{-1}b^{-1}ab$ is permutable with a, prove that c^a is the commutator of a^a and b.
- (b) If H is a normal subgroup of a group G and Δ is the commutant of G, prove that

$$\frac{\{H, \Delta\}}{H}$$
 is the commutant of $\frac{G}{H}$.

- 9. (a) Explain what is meant by a group of inner automorphisms and prove that the group of inner automorphisms A of a group G is not cyclic unless G is Abelian when $A \equiv 1$.
- (b) Prove that a group of order 2° containing only one subgroup of order 2 is cyclic or dicyclic.
- 10 (a) Prove that a group G containing kp+1 Sylow subgroups of order p^* is isomorphic with a transitive permutation-group of degree kp+1.

(b) Define a soluble group and prove that if the series of derived groups of group G ends with the identical group, G is soluble.

11. What do you understand by the characteristic of an operation of a group? Shew that in general the characteristics of inverse operations are conjugate complex quantities; and that for the symmetric group the characteristic is necessarily real and integral or else zero.

Show that the symmetric group of degree n has irreducible representation corresponding to every partition of n a the sum of positive integers a_1, a_2, \dots, a_p .

EIGHTH PAPER

(THEORY OF GROUPS—SECOND PAPER)

Examiner— { Mr. Narendrakumar Majumdar, M.A. Prof. Ganes Prasad, D.Sc.

The questions are of equal value.

- [NB.—You are required to attempt the FOURTH and NINTH questions; full marks may be obtained by answering these and ANY FOUR of the remaining questions.]
 - 1. Find the group of the function

$$x_{1}x_{2}+x_{3}x_{4}$$
.

Hence or otherwise determine the groups of the functions $x_1x_2+x_2x_4$ and $x_1x_4+x_2x_3$.

Determine the group of the function

 $x_1x_2 + x_3x_4 + \omega(x_1x_3 + x_2x_4) + \omega^2(x_1x_4 + x_2x_3)$ The parties of this group and determine its relationship

and find the nature of this group and determine its relationship with the previous three groups.

- 2. (a) Prove that if a rational function $\phi(x_1, x_2, ..., x_n)$ remains unaltered by all the substitutions which leave another rational function $\psi(x_1, x_2, ..., x_n)$ unaltered, then ϕ is a rational function of ψ and the elementary symmetric functions.
- (b) Hence or otherwise prove that every one of the arguments x_1, x_2, \ldots, x_n can be ratically expressed in terms of the elementary symmetric functions and any n !-valued function of the arguments.
- 3. Give a scheme of solution of the quartic equation, and determine in what circumstances the various resolve t equations will be binomial.
- 4. Prove that every equation which is solvable by radicals can be reduced to a chain of binomial equations of prime degrees whose roots are rational functions of the roots of the given equation.

Hence prove that the general equation of a degree higher than 'our is not solvable by radicals.

- 5. (a) Define domain of rationality, equality, and reducibility.
- (b) Prove that if two irreducible equations in a domain of rationality have one root in common, they are identical,
- 6. State the two fundamental properties of the group of an equation, and prove that the two properties completely define such group.

Determine the group of the equation $x^{s}-2=0$ in the domain of rational numbers,

- 7. (a) Prove that the group G of an Abelian equation is a regular cyclic group.
- (b) Shew that the cyclotomic equation for the imaginary p'' roots of unity, p being prime, is an Abelian equation with respect to the domain of all rational numbers.
 - 8. Prove the following Theorem of Jordan:-

"For a given domain R let the group G_1 of an equation $F_1(x)=0$ be reduced to G_1 , by the adjunction of all the roots of a second equation $F_2(x)=0$, and let the group G_2 of the second equation be reduced to G_2 , by the adjunction

of all the roots of the first equation $F_1(x)=0$. Then G_1^1 and G_2^1 arc self-conjugate subgroups of G_1 and G_2 respectively, and the quotient-groups G_1/G_1^1 and G_2/G_2^1 are simply isomorphic."

Explain the utility and importance of this proposition in the theory of equations.

- 9. (a) Discuss the criterion for the possibility of geometrical constructions by rulers and compasses.
- (b) Shew that a regular polygon of 257 sides can be constructed by rulers and compasses, but it is not possible to construct a regular polygon of 25 or 35 sides.
 - 10. (a) Determine the meta-cyclic group.
- (b) Shew that the equation $x^p-2=0$, where p is prime, is a Galoisian equation.
 - 11. Prove the following :--
- (a) If an equation is of the fifth degree and irreducible, the cofficients of the equation being numerical and rational, then the necessary and sufficient condition that the equation may be soluble by radicals is that the sextic resolvent shall have a rational root.
- (b) If the sextic resolvent of a quintic has more than one rational root, then the quintic itself must have a rational root.

SEVENTH PAPER

(FINITE DIFFERENCES-FIRST PAPER)

The questions are of equal value.

Only seven questions are to be attempted.

1. (a) Prove Herschel's theorem in the form $\phi(e^t) = \phi(E)e^{\phi_{e^t}t}$.

Hence deduce the secondary form of Maclaurin's theorem.

b) Prove

$$(e^{t}-1)^{n}=\frac{\Delta^{n}0^{n}}{n!}t^{n}+\frac{\Delta^{n}0^{n+1}}{(n+1)!}t^{n+1}+\ldots...$$

2. (a) Shew that whatever be the value of n,

$$f\{(1+\Delta)^n\}O^n = n^n f(1+\Delta)O^n$$
.

(b) Prove that

$$\{\log (E)\}^O^=0,$$

unless m = n when it is equal to n!

3. If
$$\Delta u_x = u_{x+h} - u_x$$
 and $\lambda = \frac{a^h}{a^h - 1}$,

shew that

$$u_x + \lambda \Delta u_x + \lambda^2 \Delta^2 u_x \dots \lambda^n \Delta^n u_x$$

$$= a^{-x} \{ (a^h - 1) \mathbb{Z} a^x u_x + \lambda^n \mathbb{Z} a^{x+h} \Delta^{n+1} u_x \}.$$

4. Sum the series

(a)
$$\frac{10}{1.2.3.4} + \frac{14}{2.3.4.5} + \frac{18}{3.4.5.6} + \dots n$$
 terms.

(b)
$$\tan^{-1} \frac{1}{34.1^2 - 8.1 - 8} + \tan^{-1} \frac{1}{34.2^2 - 8.2 - 8}$$

$$+ \ldots + \tan^{-1} \frac{1}{34x^3 - 8x - 8}$$

- 5. Find an approximate value of $\Gamma(x+1)$ when x is large.
- 6. If B_1 , B_3 , etc., are the numbers of Bernoulli, prove

$$B_{x-1} = (-1)^{x+1} \left\{ \frac{O^{2x}}{1} - \frac{\Delta O^{2x}}{2} + \ldots + \frac{\Delta^{\frac{4}{2}x}O^{\frac{2}{2}x}}{2x+1} \right\}.$$

7. Prove

$$f(x \triangle)(xE)^m u_x = (xE)^m f(x \triangle + m) u_x$$

- 8. (a) Prove the Gregory-Newton formula of interpolation.
 - (b) Given the table of values

find by means of the Gregory-Newton formula an expression for y as a function of x.

9. Prove Gregory's formula of numerical integration

$$\frac{1}{w} \int_{a}^{a+rw} f(x) \ dx = \left(\frac{1}{2} f_{o} + f_{1} + \dots f_{r_{1}} + \frac{1}{2} f_{r}\right)$$

$$-\frac{1}{12}(\Delta f_{r_1} - \Delta f_{\bullet}) - \frac{1}{24}(\Delta^{9} f_{r-2} + \Delta^{9} f_{\bullet}) \dots$$

10. Prove the Gauss formula of interpolation

$$f(a+xw) = f(a)+x \Delta f(a) + \frac{x(x-1)}{2!} \Delta^{4} f(a-w)$$

$$+\frac{(x+1)x(x-1)}{3!} \Delta^* f(a-w) + \dots$$

Hence deduce the central difference formula

$$u_x = u_0 + \alpha \mu \delta u_0 + \frac{x^2}{2!} \delta^3 u_0 + \frac{x(x^2-1)}{3!} \mu \delta^3 u_0 + \dots$$

EIGHTH PAPER

(THEORY OF FINITE DIFFERENCES - SECOND PAPER)

[The questions are of equal value. Full marks for the FIRST and the NINTE questions and ANY FOUR of the remaining questions.]

1. Show that a sufficient condition for the linear dependence of solutions of the linear homogeneous difference equation is the identical vanishing of the determinant of Casorati.

Prove that the Casorati's determinant D(x) of a fundamental system of of solutions of the difference equation

$$a_n(x)y(x+n) + a_{n-1}(x)y(x+n-1) + ... + a_n(x)y(x) = 0$$

satisfies the difference equation

$$D(x+1)=(-1)^n \frac{a_o(x)}{a_o(x)}D(x).$$

2. Prove that the linear homogeneous difference equation

$$y(x+1)-r(x)y(x)=0$$

is satisfied formally by the series

$$S(x) = x^{\mu x} c_0^x e^{-\mu x} x^{\frac{c_1}{c_0} - \frac{\mu}{2}} \left(S_0 + \frac{S_1}{x} + \dots \right)$$

and that there exist also two analytic solutions

$$h(x) = \lim_{n \longrightarrow \infty} \frac{1}{r(x)} \frac{1}{r(x+1)} \cdots \frac{1}{r(x+n)} T(x+n+1),$$

$$g(x) = \lim_{n \to \infty} r(x-1)r(x-2)..... r(x-n)T(x-n),$$

where T(x) is the sum of the first k terms of S(x).

Prove also that the solution h(x) is analytic throughout the plane except for poles at the zeroes of r(x) and points congruent on the left, and that it vanishes at the poles of r(x) and points congruent on the left and is represented asymptotically by S(x) in the sector

$$-\pi < arg x < \pi$$
.

- 3. Solve any two of the following equations:—
 - (a) y(x+4)-4y(x+3)+8y(x+2)-8y(x+1)+4y(x)=0.
 - (b) $u_{x+4} 6u_{x+2} + 8u_{x+1} 3u_x = x^2 + (-3)^x$.
 - (c) u_{x+3} , $y-3a^2u_{x+1}$, $y+3+a^3u_x$, y+3=xy.
- 4. Find the asymptotic form of the factorial series :-

$$\frac{1}{x} + \frac{1}{x(x+1)} + \frac{1}{x(x+1)(x+2)} + \dots$$

Also solve the equation :-

(a)
$$y(x+1) - \left(1 - \frac{1}{x^2}\right)y(x) = x + 1$$
,

(b)
$$xy(x+1)-(x+1)y(x)=1$$
.

5. Determine u., from the equation

$$c^{2} \frac{d^{2}}{dt^{2}} u_{x+2}, \quad = \Delta^{2} u_{x}, \quad .$$

where A affects x only; and, assuming as initial conditions

$$u_x$$
, $_0 = a\alpha + b$, $\frac{d}{dO} u_x$, $_0 = a'r^x$,

show that

$$\frac{d}{dt} u_x, t = A\lambda^x (\mu^t + \mu^{-t}),$$

where A, λ , and μ are constants.

6. Show how to solve the linear functional equation

$$\phi\psi^*x+a_1\phi\psi^{*-1}x+\ldots+a_n\phi(x)=X,$$

where $\psi(x)$ and X are known functions of x.

Solve completely the equation

$$\phi(m^2x) + a\phi(mx) + b\phi(x) = x^n.$$

- 7. Determine the class of curves in which the square of any normal exceeds the square of the ordinate erected at its foot by a constant quantity a. Discuss the cases when a is or is not zero.
 - 8. Solve the equations

$$\left. \begin{array}{l} u_{x+1} = (n-m^2)v_x + u_x \\ v_{x+1} = (2m+1)v_x + u_x \end{array} \right\},$$

and show that if m be the integral part of \sqrt{n} , $\frac{u_x}{v_x}$ converges, as x increases to

the decimal part of \sqrt{n} .

- 9. (a) Obtain expressions for the mean and the dispersion of a Lexian series.
- (b) Apply the method of computing moments by summation to find the second moment about the mean of the frequency distribution given below of the weights of adults:—

Weights (lbs.).	Frequencies.	Weights (lbs.).	Frequencies.
90	2	190	263
100	26	20 0	107
110	188	210	85
120	338	2220	41
130	69 4	230	16
140	1,240	240	11
150	1,070	2 50	8
160	881	2 60	1
170	402	27 0	8
180	304	280	1

- 16. (a) Derive Spencer's formula of Graduation.
- (b) Explain how you would estimate the degree of correlation in a non-normal frequency distribution, and examine if your estimate would be identical with the "correlation coefficient" in case the frequency distribution becomes sormal.

11. (a) Solve the equation :-

$$\left(\frac{\psi x + 1}{\psi x - 1}\right)^{n} - \left(\frac{\psi \frac{x}{x - 1} + 1}{\psi \frac{x}{x - 1} - 1}\right)^{n} = \frac{(x - 1)^{2} - 1}{x - 1}.$$

(b) Solve

$$\phi(x+y)+\phi(x-y)=\phi(x),\ \phi(y),$$

and briefly indicate the utility of this proposition in Mechanics.

SEVENTH PAPER

(Modern Geometry-First Paper)

The questions are of equal value.

Not more than BIX questions are to be attempted.

1. Shew that two one-dimensional geometric forms, each consisting of three elements, are always projective.

Shew also that two harmonic ranges are always projective with one another.

2. When are two ranges said to be similar?

Shew that if the points at infinity I and I' of two projective ranges u and u' correspond to each other, the ranges will be similar.

Shew how a range ABCD is made projective with the range BADC. What are the other ranges formed from the same four points which are projective with ABCD?

5. Shew that two superposed projective pencils either have at most two self-corresponding elements or else every element coincides with its correspondent.

Two planes Π , Π' contain two quadrangles ABCD, $\Lambda'B'C'D'$ respectively. Shew how one can be derived from the other by projection.

4. If a hexagon AB'CA'BC' is inscribed in a conic, the three pairs of opposite sides intersect one another in three collinear points. Prove this and state its correlative proposition.

Shew how a tangent can be drawn to a conic from a given point H when five tangents to the conic are given.

5. Prove Desargues' theorem: "Any transversal whatever meets a conic and the opposite sides of an inscribed quadrangle in three conjugate pairs of points of an involution."

Prove also that if a variable conic pass through two given points P and P' and touch two given straight lines, the chord which joins the points of contact of these two straight lines will always pass through a fixed point on PP'.

6. Shew how to determine the self-corresponding points of two projective ranges on a conic.

Shew how to inscribe in a given conic a triangle whose sides pass through three given points.

7. Deduce the theorem of Desargues: "If two triangles ABC and A'B'C', lying respectively on the planes σ and σ' , are such that the straight lines AA', BB', CC' meet in a point, then the three pairs of corresponding sides BC and B'C', and CA and C'A', AB and A'B', intersect in points lying in a straight line, by axioms of Group I alone, including space axioms."

Shew that Desargues' theorem, when ABC and A'B'C' lie in the same plane, cannot be deduced from the plane axioms of Groups I, II, III alone.

8. State the Axiom of Pasch. Shew how points on a plane, not lying on a given straight line, are divided into two classes by the help of this axiom.

Shew that straight lines exist such that a given set of n points on a plane lie on the same side of each such straight line, by help of axioms of Groups I and II only.

9. State the linear axioms of order of Group II.

Deduce that if C lies between A and D, and B lies between A and C, then B lies between A and D.

10. Shew how Hilbert deduces that supplementary angles are congruent. Shew how Hilbert deduces that all right angles are equal.

EIGHTH PAPER

(Modern Geometry—Second Paper)

Examiners— { Mr. Mohitmohan Ghosh, M.Sc. , Harendranath Datta, M.Sc.

The questions are of equal value.

Candidates are required to answer six questions only.

- 1. Show that every projection or a section of a harmonic form is itself a harmonic form.
- If A, B, C, D are four harmonic points, then A and B are necessarily separated by C and D.
- 2. Prove that if ABC....MN and A'B'C'....M'N' are two projective ranges in the same plane, every pair of straight lines such as MN' and M'N intersect in points lying on a fixed straight line.
- 3. When are two ranges of points said to be similar? Show that two similar ranges of points are projective.

Show that two ranges on the same base, which have a single self-corresponding point lying at infinity, are directly equal.

4. What are the double points of two collinear projective ranges of points in involution? Do they exist in every case?

Show that the three pairs of opposite sides of a complete quadrangle are cut by any transversal in three pairs of conjugate points of an involution; and state its correlative theorem.

5. Prove that any number of tangents to a conic determine on a pair of fixed tangents two projective ranges. Hence deduce Brianchon's theorem regarding a hexagon circumscribing a conic.

- 6. (a) If A'B'C' is a triangle inscribed in a triangle ABC, prove that there is an unlimited number of triangles simultaneously circumscribed to ABC and inscribed in A'B'C'.
 - (b) A, B, C, D are any four points of a row, show that

ABCD \(\bar{B}\) BADC \(\bar{C}\) CDAB \(\bar{D}\) CBA.

- 7. Explain clearly the meaning of conjugate reguli. If ρ is a curved surface containing two conjugate reguli, show that the section of ρ by any plane is a conic or a line-pair.
- 8. (a) In a decreon AB'CD'EA'BC'DE', the four intersections (AB', A'B), (BC', B'C), (CD', C'D), (DE', D'E) lie on a straight line u. Prove that the intersection of EA' with E'A also lies on u.

Etate the general theorem of which this is a particular case.

- (b) If two triangles are self-conjugate with respect to a conic, prove that their six vertices lie on a conic.
- 9. (a) Explain the method of adding and subtracting two casts and show that

$$c_1 - (-c_2) = c_1 + c_2$$

(b) Establish a method for multiplying two casts and show that

$$c_1(c_2+c_3)=c_1c_2+c_1c_3$$

where c., c., and c. represent three distinct casts.

10. If a, b, c, d are any four constants, such that (ad - bc) is not zero, prove that the equation

$$axx' + bx + cx' + d = 0$$

fixes a projectivity on a conic, and conversely.

SEVENTH PAPER

(Non-Euclidean Geometry-First Paper)

Examiner— { Prof. Syamadas Mukherjee, M.A., Ph.D. Mr. Mohitmohan Ghosh, M.Sc.

The questions are of equal value.

Only BIX questions are to be attempted.

1. State the axioms of order of Hilbert.

Deduce from these axioms that if C lies between A and B and D lies between A and C, then D lies between A and B and C lies between D and B.

2. State precisely Hilbert's axiom of parallels for hyperbolic geometry.

If a line AB be parallel to a line CD, shew that points exist on AB whose distance from CD is less than any arbitrary length and also that points exist on AB whose distance from CD is greater than any arbitrary length.

3. Shew that in hyperbolic geometry there are three kinds of circles, corresponding to the three kinds of concurrence of straight lines.

Shew that through the angular points of a triangle four circles pass.

4. Establish a correspondence between a right-angled triangle and a three-right-angled quadrilateral.

Show that corresponding to a given right-angled triangle there exist five three-right-angled quadrilaterals.

5. Shew that the sum of the angles of a hyperbolic triangle is less than two right angles.

Shew that if three angles of one triangle are equal, respectively, to three angles of another triangle, the two triangles are congruent.

6. Define a Horo-Cycle and shew that all horo-cycles are congruent.

Show that if s and s' be arcs of two horo-cycles intercepted between the same two common axes, any third common axis will divide them proportionally.

7. Show that the geometry of an infinitesimal triangle is Euclidean.

With the help of this hypothesis shew that the element of area in Cartesian co-ordinates is $\cosh \frac{y}{L} dx dy$.

8. Calculate the area of a hyperbolic quadrilateral with three right angles and an acute angle θ .

Obtain the area, in terms of the three angles, of a hyperbolic triangle.

- 9. Prove, after Saccheri, that if the hypothesis of the obtuse angle is true in one case it is true in every case.
- 10. What is the Postulate of Archimedes? Shew how Legendre proved by assuming the straight line to be infinite and using the Postulate of Archimedes, that three angles of a triangle cannot be together greater than two right angles.

EIGHTH PAPER

(Non-Euclidean Geometry-Second Paper)

Examiners— { Dr. Surendramohan Ganguli, D.Sc. Mr. Harendranath Dutta, M.Sc.

The questions are of equal value.

ANY SIX questions carry full marks.

1. Prove that two planes in a four-space have two common perpendicular planes, each intersecting the four planes, namely, the two given planes and their two absolutely perpendicular planes at the common point.

Prove further that these common perpendicular planes are themselves mutually absolutely perpendicular.

2. When is a plane said to be perpendicular to a hyperplane?

Prove that if a plane α is perpendicular to a hyperplane along a line l, any plane in the hyperplane perpendicular to l is absolutely perpendicular to α and any plane absolutely perpendicular to α through a point of the hyperplane lies entirely in the hyperplane.

3. Define the direction cosines of a plane in four-space and show that they uniquely determine the plane.

Show that the plane (l, m, n, l, m, n') is isocline to the plane $x_3 = x_4 = 0$, and prove that if ϕ is the angle between them $\tan^2 \phi = -n/n'$.

- 4. Distinguish between a hyperplane angle and a spherical dihedral angle.

 Establish the following:—
 - The plane angle of the hyperplane angle is the same at all points of the face.
 - (2) A spherical dihedral angle has the same measure at all points of its edge.
- 5. Explain what you understand by two conjugate series of isocline planes.

Prove that all the planes isocline to a given plane at an angle 45° lie in two conjugate series.

- 6. Define half-parallel planes and prove that if a plane distinct from each of two parallel planes intersects one in a line and does not intersect the other in a line, it will be half-parallel to the second.
- 7. Show that in a four-space, rotation can take place around a plane, and in this rotation the absolutely perpendicular plane to the fixed plane rotates upon itself through the angle of rotation.

Prove that rotations around two absolutely perpendicular planes are commutative.

8. What are the Plückerian co-ordinates of a right line in a four-space? Find an expression for the shortest distance between two such lines in terms of their Plückerian co-ordinates.

Deduce the condition that any two lines in a four-space may intersect.

9. Define the following:-

Double pyramid, Hyperconical hypersurface, Hypercone, Double cone, Hypercube.

Prove that the diagonal of a hypercube is twice as long as its edge.

10. Prove that any plane polygon and its projection upon an isocline plane are similar.

Hence, or otherwise, deduce that the projection of a circle upon a plane isocline to its plane is a circle.

- 11. Write short notes on the geometrical representation of two complex variables in a space of four dimensions.
- 12. Show that the hypervolume of a hypersphere is equal to its boundary-content multiplied by one-fourth of its radius.

SEVENTH PAPER

(VECTOR ANALYSIS AND QUATERNIONS—FIRST PAPER)

Examiners— { Mr. Satischandra Ghosh, M.A. Dr. Satischandra Bagchi, M.A. L.L.D., Bar.-at-Law.

The questions are of equal value.

Attempt SIX questions only.

1. (a) Define e?.

Establish (i) $Te^q = e^{Sq}$.

(ii) $Ue^q = \cos TV_a + UV_a \sin TV_a$.

(b) Show that

$$\left(\frac{\alpha}{\gamma}\right)^{\frac{1}{2}}\left(\frac{\gamma}{\beta}\right)^{\frac{1}{2}}\left(\frac{\beta}{\alpha}\right)^{\frac{1}{2}} = \frac{\alpha}{U(\gamma+\alpha)} \cdot \frac{U(\beta+\gamma)}{U(\alpha+\beta)} = \left(\frac{\gamma+\alpha}{\beta+\gamma} \cdot \frac{\alpha+\beta}{\gamma+\alpha} \cdot \frac{\beta+\gamma}{\alpha+\beta}\right)^{\frac{1}{2}}$$

where α , β , and γ are any three unit vectors.

- 2. (i) Adduce arguments in support of Hamilton's identification of vector and quadrantal versor.
 - (ii) What do the following equations represent-

(a)
$$U\left(\frac{\rho}{a}\right)^2 = -1$$
.

(b)
$$\left(U\frac{\rho}{\alpha}\right)^2=1$$
.

(c)
$$\left(\frac{w+\rho-\alpha}{\beta}\right)^2=-1$$
.

- 3. (i) Define the differential of a quaternion function of a quaternion. Show that the differential function is a linear and distributive function of the differential of the quaternion.
 - (ii) Prove that

(a)
$$d\alpha^x = xS\frac{d\alpha}{\alpha}$$
, $\alpha^r + V\frac{d\alpha}{\alpha}$, $V\alpha^a$

where x is constant and a variable.

(b)
$$dq^{\frac{1}{2}} = \frac{Kq^{\frac{1}{2}} \cdot dq \cdot q^{-\frac{1}{2}} + dq}{4Sq^{\frac{1}{2}}}$$
.

4 (1) Defining ∇ by the relation

$$dP = -S \nabla P d\rho$$

where P is any scalar function of a variable vector ρ , obtain the most general expression for the operator.

Prove that

$$\nabla T V a \rho = U V a \rho$$
 . a.

(ii) Establish

of \widehat{U} , \widehat{V} , \widehat{W} .

$$\nabla \cdot pq = \nabla p \cdot q_0 + \nabla \cdot p_0 \cdot q$$

where the suffix is intended to denote that the affected symbols are not to be operated on by ∇ .

- 5. (a) Resolve the vector curvature of a curve traced on a surface into its mponents perpendicular to and along the normal.
 - (i) Derive Meusnier's theorem from the first component.
- (ii) Derive the differential equation of a geodesic from the second component.
 - (b) Find the centre of the osculating circle of a curve.
 - 6. Show that the Laplacian in orthogonal curvilinear co-ordinates is

$$\nabla^{4} = UVW \left\{ \frac{\partial}{\partial u} \left(\frac{U}{VW} \frac{\partial}{\partial u} \right) + \text{two similar terms} \right\}. \quad [\text{Use the form } \nabla^{4} \phi]$$

= div.
$$\nabla \phi$$
 and put $\nabla \phi = \overline{U} \frac{\partial \phi}{\partial u} + \overline{V} \frac{\partial \phi}{\partial v} + \overline{W} \frac{\partial \phi}{\partial w}$, U, V, W are the tensors

7. What conclusions may be drawn from the following equation about three otherwise unknown vectors A, B, C

 $\lceil A[BC] \rceil = 0$

or in Silberstein's notation

V A V BC = 0

[i.e., vector product of A and vector product of B and C=0]?

Discuss fully all possibilities.

8. Interpret the decomposition of a linear function into a self-conjugate function preceded or followed by a rotation in terms of 'strain.'

Show that any strain followed by its conjugate gives a pure strain

which is the square of the pure part of either.

- 9. If u be the potential due to a continuous distribution of attracting matter, find the value of $\nabla^2 u$ at P where (i) P is a point occupied by attracting matter, (ii) P is wholly outside the attracting matter.
- 10. Let i, j, k be three constant vectors and a, b, c be three variable vectors; prove that the latter define a field given by

$$\phi = ai + bj + ck$$
 and $\int \nabla \cdot \phi d\tau = \int do \cdot \phi$.

[This is the well-known Gauss's theorem; $d\tau$ is the volume element and $d\sigma$ is the surface element.]

EIGHTH PAPER

(VECTOR ANALYSIS AND QUATERNIONS—SECOND PAPER)

The questions are of equal value.

Answer ANY BIX questions.

- 1. (i) Compare the tensors, angles, and axes of the quaternions q and q* (where n is a positive integer).
 - (ii) Prove that, if ρ he a vector, the expression

represents another vector, derivable from ρ by a kinematical rotation round the axis of q through an angle equal to twice that of q.

Given that

prove that the angle of q is $\frac{\pi}{n}$.

2. Work out the general equation of a sphere in the form

$$\rho^4 - 2S\lambda \rho + l = 0$$

where λ is a vector constant and l a scalar constant.

By reduction to the above form or by appeal to a priori reasoning, make sure that the equation

$$T(\omega + \rho) = a$$

defines a sphere, provided that w and a are fixed scalars.

Verify that the equations

and

$$T(5+\rho-a)=13$$

 $T(16+\rho-2a)=20$

denote two equal spheres, having their centres collinear with the origin. [N.B.—a is a vector constant.]

3. (i) Reduce the equation of a straight line to the form

where t is a scalar parameter and α , β are vector constants.

If P, Q be two points, lying respectively on the two lines

haa

$$\rho = \alpha + t\beta$$

$$\rho = \alpha' + t'\beta'$$

 $\rho = \alpha + t\beta$.

prove that the distance PQ will be a minimum, provided that the parameters t. t associated with P, Q conform to the relations

$$S. \beta(\alpha - \alpha' + t\beta - t'\beta') = 0$$

$$S. \beta'(\alpha - \alpha' + t\beta' - t'\beta') = 0$$

ænd

(ii) For the pair of lines

$$\rho = \alpha + tV \cdot \lambda(\alpha - \beta)$$

$$\rho = \beta + t'V \cdot \mu(\alpha - \beta)$$
(where $U\lambda \neq U\mu$)

prove that the shortest distance is none other than the line, joining the terminal points of the vectors a, B.

4. Show how the equation of a curve (other than a nul line) can be brought to the parametric form

$$\rho = \phi(s)$$

where ϕ is a vector function of the argual parameter s.

Prove that the unit vectors along the tangent, principal normal, and binormal, at an arbitrary point s, are respectively equal to

$$\rho'$$
, $U\rho''$, $U(\rho'\rho'')$,

where the dashes denote differentiation with respect to s.

Deduce or prove directly that the necessary and sufficient condition for a plane curve is that the relation

$$S, \rho' \rho'' \rho''' = 0$$

sbould hold everywhere on the curve.

For a surface given in the scalar form

$$f(\rho) = 0$$

devise a method of calculating the vector normal (v) at a point as a function of p.

Find the differential equations of the geodesics and asymptotic lines in the respective forms

$$S$$
 , $vd\rho d^{\frac{1}{2}}\rho = 0$

 $S \cdot d\rho dv = 0$. and

Deduce therefrom or prove oth rwise that a straight line is the only type of geodesic, which is an asymptotic line as well.

6. If vectors are drawn in the body from an arbitrary base-point to represent the resultant moment, prove that the locus of their extremities is an ellipse when the forces receive all possible rotations about a given axis.

7. Prove that the locus of points having a velocity of given magnitude is a right circular cylinder coaxial with the in tentaneous axis.

Prove that the instantaneous acceleration of a point of a rigid body moving in any manner is a linear function of the vector to the point from the acceleration centre or

$$\rho = \phi(\rho - \alpha)$$
,

where

 $\phi(\rho = V\omega\rho + V\omega V\omega\rho \text{ and } \alpha = 0.$

8. Interpret Hamilton's focal and cyclic transformations of a self-conjugate-function

$$\phi \rho = aaVa\rho + b\beta S\beta \rho = g\rho + \lambda S\mu \rho + \mu S\lambda \rho$$

where op represents the displacement due to a small pure strain.

9. Obtain the accelerations of a particle parallel and perpendicular to the radius vector.

Prove that, in the case of a central orbit, the law of the inverse square is the only law for which the hodograph is a circle for all initial conditions.

10. Find the condition that the family of surfaces

$$f(p, u) = 0$$

should form an equipotential system, and determine the potential when the condition is satisfied.

MIXED MATHEMATICS

FIRST PAPER

The questions are of equal value.

N.B.—Only THRE questions to be attempted from EACH half.

FIRST HALF

1. Prove that two screws on a cylindroid are reciprocal, if they are parallel to a pair of conjugate diameters of the pitch conic.

Show that a cylindroid can be constructed so as to be reciprocal to any four given screws.

2. Find the condition that a system of forces should be equivalent to a single force.

ABCD is a tetrahedron; forces P, Q, R act along the edges BC, CA, AB in order, and forces P', Q', R' act along AD, BD, CD; prove that the condition for a single resultant is

$$\frac{PP'}{BC, AD} + \frac{QQ'}{CA, BD} + \frac{RR'}{AB, CD} = 0.$$

 Show that a given system of forces can be reduced to two forces, one acting along an arbitrary straight line.

A system of forces equivalent to a wrench (R, Rp) is to be reduced to two forces inclined at the angle α ; prove that the shortest distance between their

lines of action cannot be less than $2p \cot \frac{\alpha}{2}$.

4. A heavy body rests on a fixed rough surface, under the action of gravity. Investigate the nature of equilibrium.

Prove that any body with a plane base, resting on a fixed rough spherical surface, will, when the height of its centre of pravity has the critical value, be in unstable equilibrium.

5. Investigate the equations of equilibrium of an inextensible string, stretched over a rough surface and acted upon by any forces.

Find the form of the string and the tension at any point, in the particular case, when there is no external force and the string is about to slip on the surface at every point in the direct on of the tangent to the starting at the point.

97.

Write a brief note on-

Six forces in equilibrium.

SECOND HALF

Examiner-Mr. N. C. GHOSH, M.A.

1. Find the value of the gravitational constant, γ , when a gram, a centimetre, and a second are taken as the units of mass, length, and time respectively, given that the mean density of the earth is 5.67 times that of water at 4°C., and the mean radius of the earth is 6.37 × 10° cm.

Obtain a formula connecting the two values of γ for two different systems of fundamental units. Derive a particular system of units in which the value of γ is 1. What is the astronomical unit of mass in grams when the wave-length, 4.86×10^{-5} cm., of a certain ray of light is taken as the unit of length, and the period of vibration of that ray as the unit of time? (Assume the velocity of light to be 3×10^{10} cm/sec.).

· 2. Find the attraction of a thin homogeneous straight rod at a point outside it.

P is a point on the bisector of the angle C of a triangle ABC. Prove that the line of action of the resultant attraction of the three sides of the triangle at P bisects the angle APB, and the magnitude of this force is

$$2\mu \left\{ \frac{1}{\gamma} - \frac{1}{\alpha} \right\} \sin \frac{APB}{2},$$

where α and γ are the distances of P from BC, AB respectively, and μ is the mass per unit length.

3. A right circular cylinder is of infinite length in one direction and is homogeneous, the end of the cylinder, not at infinity, being perpendicular to the generators. Prove that the attraction at the centre of this end is 2M/a, where M is the mass per unit length, and a is the radius.

If the cylinder be elliptic, and of the same density and the same massper unit length as before, and of eccentricity e, then the attraction will be ntimes the former value, where

$$n = \frac{2}{\pi} (1 - e^z)^{\frac{1}{4}} \int_0^{\pi} \frac{d\theta}{\sqrt{1 - e^z \sin^z \theta}}$$

4. Find the potential and the attraction-components of a solid homogeneous spheroid of semi-axes a, a, c. (Consider the two cases, a > c, a < c.)

5. Write a short note on the existence and the continuity of the second derivatives of the Newtonian patential function U, due to a certain surface or volume distribution of attra ting matter. In the case of a volume distribution, find the abrupt changes in the values of

$$\frac{\partial^2 U}{\partial x^2}$$
, $\frac{\partial^2 U}{\partial y^2}$, $\frac{\partial^2 U}{\partial z^2}$

in passing from just inside to just outside the volume, through a certain point P on the surface bounding the volume

State the characteristic properties of the Newtonian potential functions due to (i) a volume-distribution, (ii) a surface-distribution, of attracting matter.

If the potential U due to a certain distribution of attracting matter be such that U=0, at all points external to a given surface S, and $U=\phi(x,y,z)$ at all points within S, where ϕ is a single-valued continuous function, vanishing at all points upon S, then

(a) there is no attracting matter outside S;

(b) there is a surface-distribution of matter upon S, of density

$$\sigma = \frac{1}{4\pi} \sqrt{(D_s\phi)^2 + (D_y\phi)^3 + (D_s\phi)^3}$$

(c) there is a volume-distribution of matter within S, of density

$$\rho = -\frac{1}{4\pi} (D_x^2 \phi + D_y^2 \phi + D_{\phi}^2 z).$$

SECOND PAPER

The questions are of equal value.

FIRST HALF

Examinar-MR. H. C. SENGUPTA, M.A.

N.B.—Candidates are required to answer THREE questions out of the five.

- 1. If any number of particles be moving in an ellipse about a force in the centre, and the force suddenly ceases to act, show that after the lapse of $\frac{1}{2\pi}$ th part of the period of a complete revolution all the particles will be in a
- similar concentric and similarly situated ellipse.

 2. Three rectangular moving axes OA, OB, OC forming a rigid system coincide at the time t with three fixed axes OX, OY, OZ and are rotating about them with angular velocity $(\theta_1, \theta_2, \theta_3)$. OP is a straight line fixed with respect to the moving system, having for its direction-cosines (l, m, n) at the time t with respect to the fixed system of axes. Find the values of

$$\frac{dl}{dt}$$
, $\frac{dm}{dt}$, and $\frac{dn}{dt}$.

3. A particle of mass m is moving on a smooth ellipsoid with velocity r. Prove that

$$R=\frac{mv^2}{\rho}-N,$$

where R is the pressure on the particle measured positively inwards, ρ the radius of curvature of the normal section whose tangent coincides with the direction of v, and N is the inward normal component of the impressed force.

4. Two heavy particles of masses m, M are attached to the points A, B of a light inextensible string, the upper extremity O being fixed. Prove by Lagrange's Method that the periods of the small lateral oscillations are

 $\frac{2\pi}{p}$ and $\frac{2\pi}{q}$, where p and q are the roots of

$$\frac{1}{p^4} - \frac{a+b}{q} \frac{1}{p^2} + \frac{m}{M+m} \frac{ab}{q^2} = 0, \text{ where } OA = a \text{ and } AB = b.$$

5. Solve the preceding problem without applying Lagrange's Method.

SECOND HALF

(Hydrostatics)

Examiner-DR. N. N. SEN, D.Sc.

Answer THREE questions only.

1. Prove that no figure of equilibrium of a rotating homogeneous gravitating liquid of density ρ is possible if the angular velocity of rotation exceeds $\sqrt{2\pi\rho}$.

A homogeneous gravitating liquid rotates in a state of relative equilibrium in the form of an ellipsoid. Show that the mean pressure throughout the liquid is $\frac{1}{2}$ of the pressure at the centre of the ellipsoid.

2. A triangular prism floats in water with its edges horizontal and base not immersed. Find its positions of equilibrium.

A thin cylindrical vessel of sectional area A floats upright being immersed to a depth k and contains water to a depth k. Discuss the stability of its equilibrium for small angular displacements. Prove that the work required to pump out the water from the cylinder is $\rho Ak(k-k)g$ units. $(\rho = \text{density of water.})$

3. State the laws of Capillarity.

If the particles of a spherical soap bubble of radius τ and tension t repel each other according to the law of inverse square of the distance, prove that $V^* = 16\pi\tau t$, V being the potential on the surface of the film.

4. A light rigid spherical shell of radius a contains a light gas in which the pressure is k times the density. The gas is repelled from a fixed external point O at a distance b from the centre, with a force per unit mass equal to

 $\frac{k}{\text{distance}}$. Prove that the pressure p at a distance X from O is given by

$$p = \frac{15b^2XY}{4\pi a^3(5b^2 - a^3)},$$

where Y is the force which must be applied to the shell in order to keep it at rest.

5. Obtain the differential equation for determining the pressure at any point of a perfect fluid at rest under any forces and deduce the necessary condition of equilibrium.

A homegeneous liquid of density ρ is at rest under the forces whose components on a unit mass at (x, y, z) are

$$X = \frac{\mu x}{a^3}$$
, $Y = \frac{\mu y}{b^3}$, $Z = \frac{\mu z}{c^3}$.

Find the resultant presssure on a portion of the surface

$$\frac{x^3}{a^3} + \frac{y^3}{b^3} + \frac{z^3}{c^3} = 1$$

bounded by the planes of reference.

THIRD PAPER.

The questions are of equal value.

FIRST HALF.

Examiner-MR. B. C. DAS, M.Sc.

Answer ANY THREE.

1. Shew that the principal axes of a given material system at any point are the normals to the three quadrics which pass through the point and belong to a certain confocal system.

If $(l, m, n, \lambda, \mu, \nu)$ be the six co-ordinates of a principal axis and the associated Cartesian system be the principal axes at the centre of gravity, then show that

$$Al\lambda + Bm\mu + Cn\nu = 0$$
.

2. A heavy rigid body can turn about a fixed horizontal axis. Determine the length of a simple equivalent pendulum.

If one point in the body is given through which the horizontal axis has to pass, discuss the problem of choosing the direction of the axis in the body in such a way that the simple equivalent pendulum shall have a given length; shewing that the axes which satisfy this condition are the generators of a quartic cone.

- 3. A solid uniform disc, of radius a, can turn freely about a horizontal axis through its centre, and an insect, of mass $\frac{1}{n}$ that of the disc, starts from its lowest point and moves along the rim with constant velocity relative to the rim; shew that it will never get to the highest point of the disc if this constant velocity is less than $\frac{2}{n} \sqrt{2ga(n+2)}$.
- 4. If a hollow lawn tennis ball of elasticity e has on striking the ground. supposed perfectly rough, a vertical velocity u and an angular velocity ω about a horizontal axis, find its angular velocity after impact and prove that the range of the rebound will be

$$\frac{4a\omega}{5g}$$
 eu,

a being the radius of the ball.

5. A system begins to move from rest due to sudden yielding of some points of support. Discuss briefly the method of finding the initial radius of curvature of the path of any point of it.

A uniform smooth circular lamina, of radious a and mass M, movable about a horizontal diameter is initially horizontal, and on it is placed, at a distance c from the axis, a particle of mass m. Shew that the initial radius of

curvature of the path of m is equal to $12\frac{mc^2}{Ma^2}$.

SECOND HALF.

Examiner-DR. N. N. SEN, D.Sc.

Answer ANY THREE.

6. A rigid body moves continuously in space parallel to a fixed plane. Prove that the motion at any instant consists of pure rotation round an instan-

taneous axis, the position of which in space you are required to find in terms of the co-ordinates of the body.

A rigid body is set spinning about a horizontal axis through its centre of gravity, and then allowed to fall vertically. Show that the locus of the instantaneous axis of rotation relative to the body is a cylinder, the guiding curve of which is a spiral of Archimedes.

7. Obtain Euler's Dynamical Equations.

Deduce two first integrals of these equations for the case when the external forces are equivalent to a single force passing through the fixed point, and interpret these integrals.

If T be the kinetic energy, G the moment of the impressed forces about the instantaneous axis, and Ω the resultant angular velocity, shew

that
$$\frac{dT}{dt} = G\Omega$$
.

8. Obtain Lagrange's equations for impulsive forces.

A disc at rest is acted on by an impulse in its own plane. Prove that the vis viva generated by the impulse is greater when the body is free than when it is constrained to turn round some fixed point.

9. A rod of length 2l is constrained to move on the surface of a hyperboloid of revolution of one sheet with its axis of symmetry vertical. so that the rod always lies along a generator. If the rod start from rest, show that

$$r^{2}-2ar\theta \sin \alpha + a^{2}\theta^{2} + \sin^{2}\alpha \left(r^{2} + \frac{1}{3}l^{2}\right)\theta^{2} + 2g \cos \alpha (r - r_{0}) = 0$$
and,
$$\left\{a^{2} + \sin^{2}\alpha \left(r^{2} + \frac{1}{3}l^{2}\right)\right\}\dot{\theta} - ar \sin \alpha = 0,$$

where τ is the distance measured along a generator from the centre of gravity to the principal circular section, θ is the eccentric angle of the point in which the generator meets the circular section, a is the radious of the circular section, and a is the inclination of the rod to the vertical.

10. A heavy particle slides down the tube of an Archimedian screw, which is vertical and capable of turning about its axis. Determine the motion.

FOURTH PAPER.

The questions are of equal value.

FIRST HALF.

Examiner-MR. B. M. SEN, B.A. (CANTAB.), M.Sc. (CAL.).

Not more than THREE questions may be attempted.

1. Define the terms limit points and bounded sequence. Distinguish between limit points and limiting values of a sequence. Prove that the necessary and sufficient condition that a sequence z, should have a limiting value is that corresponding to any given positive number e however small, it should be possible to find a number n such that

for all positive integral values of p.

Find the limit points and the limiting values if any of the sequences.

(a)
$$z_n = \frac{1}{a+n}$$
 if n be odd $a_n = \frac{1}{a-n}$ if n be even.

(b)
$$z_n = \frac{n}{n}$$
 if n be odd $z_n = \frac{1}{n}$ if n be even.

- 3. Test the following series for convergence:-
- (a) $\geq (1/\log n).$

$$(b) \qquad 2\frac{1}{\sqrt{(n^2+n)}}.$$

$$(c) \qquad \qquad 2\frac{1}{1+a^{n}}.$$

Prove that

$$1 - \frac{1}{2} - \frac{1}{4} + \frac{1}{3} - \frac{1}{6} - \frac{1}{6} + \frac{1}{5} - \frac{1}{10} - \frac{1}{13} \dots = \frac{1}{3} \log 2$$

3. Define uniform convergence of a series $\Sigma u_{*}(x)$ for all values of x between x = a and x = b.

Discuss the convergence of sequence

$$S_{x} = \arctan nx$$
, when $x > 0$.

Prove that if the series

$$F(x) = \sum f_n(x)$$

is uniformly convergent in a closed interval, F(x) can be integrated term by term in that interval.

4. Prove by contour integration

(a)
$$\int_{0}^{\infty} \frac{\cos x}{x^{2} + a^{2}} dx = \frac{\pi}{2a} e^{-a}.$$
(b)
$$\int_{0}^{+\infty} e^{-x^{2}} \cos 2bx \, dx = \sqrt{\pi}e^{-b^{2}}.$$

integrating e^{-x^2} along the rectangular contour formed by y=0, y=b, $x=\pm B$, and making $R\longrightarrow \infty$

5. Define the term poles, essential singularities, and branch points.

Prove Laurent's theorem that if f(z) be analytic in the region between two concentric circles with centre at a and on the circumference, it can be expanded in the form

$$f(z) = a_0 + a_1(z - a) + a_2(z - a)^{\frac{1}{2}} + \dots$$

$$+ \frac{b_1}{z - a} + \frac{b_2}{(z - a)^{\frac{1}{2}}} + \dots$$

Shew that

$$\sin\left\{u\left(z+\frac{1}{z}\right)\right\}$$

can be expanded in the series

$$a_0+a_1z+a_2z^2+\ldots+\frac{b_1}{z}+\frac{b_2}{z^2}+\ldots$$

in which the coefficients both of z" and z", are

$$\frac{1}{2\pi}\int_{0}^{2\pi}\sin (2u\cos \theta)\cos n\theta \ d\theta.$$

SECOND HALF.

Examiner-DR. N. R. SEN, D.Sc., Ph.D.

Answer ANY THREE questions.

- 1. Obtain any sufficient condition or set of conditions you know of the convergence of Fourier series of an absolutely integrable function f(x).
- 2. (a) Express f(x) as a series of sines of x and its multiples in the interval $0 < x < \pi$ when

$$f(x) = \frac{\pi}{3} \left(0 < x < \frac{\pi}{3} \right)$$
$$= 0 \left(\frac{\pi}{3} < x < \frac{2\pi}{3} \right)$$
$$= -\frac{\pi}{3} \left(\frac{2\pi}{3} < x < \pi \right).$$

Find the sum of the series you obtain at the points

$$0, \frac{\pi}{3}, \frac{2\pi}{3}, \pi.$$

(b) Prove that if

$$g(p) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{s} f(q) e^{-r p \cdot q} dq$$

then '

$$f(q) = \frac{1}{\sqrt{2\pi}} \int_{-\pi}^{\pi} g(p) e^{-ip\cdot p} dp.$$

3. (a) Examine the singular points of the equation

$$z\frac{d^{\frac{1}{2}}w}{dz^{\frac{1}{2}}} + \frac{dw}{dz} - w = 0$$

and discuss the integrals in the neighbourhood of the origin.

(b) Examine whether the hypergeometric equation

$$z(1-z,\frac{d^2w}{dz^2} + \{y - (a+\beta+1)z\}\frac{dw}{dz} - a\beta w = 0$$

is of the Fuchsian type.

4. (a) Obtain an integral of Bessel's equation in the form

$$J\lambda(x) = \frac{1}{2\pi i} \int_{C}^{\frac{x}{2} \left(u - \frac{1}{u}\right) - (\lambda + 1)} du$$

indicating clearly the path C, the real part of x being positive.

(b) Prove the following identities :-

(i)
$$\frac{d}{dx}(x^nJ_n(x)) = x^nJ_{n-1}(n \text{ integer}).$$

(ii)
$$\int_{0}^{\infty} e^{-ax} J_{0}(bx) dx = (a^{2} + b^{2})^{-\frac{1}{2}}.$$

5. (a) Prove Rodrigue's formula for the Legendre's polynomial

$$P_n(z) = \frac{1}{2^n \cdot n!} \cdot \frac{\partial^n}{\partial z^n} (z^2 - 1)^n$$

and also obtain the form

$$P_n(\cos\theta) = r^{n+1} \frac{(-1)^n}{n!} \frac{\partial^n}{\partial x^n} \left(\frac{1}{r}\right).$$

(b) Show that a diverging wave solution of the wave equation can be obtained in the form

$$\frac{e^{ik(ct-r)}}{r}. f_n(ikr). S_n$$

where S_n is a spherical surface harmonic of the n^{th} order and f_n is a polynomial of the n^{th} degree in $(ikr)^{-1}$ to be determined.

FIFTH PAPER.

Not more than SIX questions are to be answered, of which TWO at least should be from Group B.

GROUP A.

Examiner-Dr. S. D. GHOSH, D.Sc.

1. Prove the equation of continuity

$$\frac{\partial \rho}{\partial t} + \frac{\partial \rho u}{\partial x} + \frac{\partial \rho v}{\partial y} + \frac{\partial \rho w}{\partial z} = 0.$$

Show that all necessary conditions can be satisfied by a velocity potential of the form

$$\phi = \alpha x^2 + \beta y^2 + \gamma z^2$$

and a bounding surface of the form

$$F \equiv ax^4 + by^4 + cz^4 - \chi(t) = 0$$

where $\chi(t)$ is a given function of time and a, β , γ , a, b, c suitable functions of time.

2. Obtain the equations of motion of a fluid in Euler's form. How are these equations supplemented to make the general problem definite?

Steam is rushing from a boiler, through a conical pipe, the diameters of the ends of which are D and d; if V and v be the corresponding velocities of the steam, and if the motion be supposed to be that of divergence from the vertex of the cone, prove that

$$\frac{v}{V} = \frac{D^2}{d^2} e^{-\frac{V^2 - V^2}{2k}},$$

where k is the pressure divided by the density, and supposed constant.

3. An infinitely long circular cylinder is moving perpendicular to its length in an infinite mass of liquid at rest at infinity and there is a cyclic motion about the cylinder. Find the velocity potential and shew that the stream lines relative to the cylinder are

$$\left(r-\frac{a^3}{r}\right)\sin\theta+A\log r=\text{constant},$$

where a is the radius of the cylinder and A some constant to be determined.

An infinitely long cylinder whose cross-section is composed of the exterior portions of two equal circles (of radius a) cutting orthogonally, is surrounded by an infinite mass of liquid. If the cylinder be set in motion with velocity a perpendicular to its generators in the direction of the line of centres of a cross-section shew that the velocity potential is

$$ua^2 \left[\frac{\cos \theta}{r} - \frac{\cos \Theta}{2R} + \frac{\cos \theta'}{r'} \right],$$

where r, r', R are the radii vectors of a point lying on the plane of the section, measured respectively from the centres of the two circles and the point midway between them and θ , θ' , Θ are the angles which the radii vectors make with the direction of motion.

4. A solid revolution is moving uniformly along its axis in an infinite mass of liquid. Discuss the stability of the motion.

Shew that when an oblate spheroid moves uniformly along its axis in an infinite mass of liquid the motion is stable, but for a prolate spheroid, the motion is unstable.

5. Investigate the behaviour of two thin parallel rectilinear vortex filaments in an infinite mass of incompressible fluid. Discuss the case when the strengths of the vortices are equal but of opposite signs and hence deduce the metion of a rectilinear vortex filament in an infinite mass of incompressible fluid bounded on one side by a rigid wall parallel to the vortex filament.

When an infinite liquid contains two parallel rectilinear vortices, the magnitude and sense of spin being the same in both, show that the stream lines relative to the vortices are given by

$$\log (r^4 + b^4 - 2r^2b^2 \cos 2\theta) - \frac{r^2}{2b^2} = \text{constant},$$

being measured from the join of the vortices, the origin being its middle point and 2b the distance between the vortices.

6. Simple harmonic waves are propagated along a straight canal of very great depth. Find the velocity potential ϕ and shew that the velocity of waves of length λ is given by

$$v^2 = \frac{g\lambda}{2\pi}$$
.

Show further that the potential energy of a wave consisting of a single elevation and a single depression is equal to its kinetic energy.

GROUP B.

Examiner—DR. S. C. KAR, M.A., PH.D.

7. Discuss the nature of motion in the neighbourhood of the origin, when f(z) being continuous, finite and one-valued in that neighbourhood,

$$(1) \ \frac{dw}{dz} = \frac{m}{z} + f(z)$$

(2)
$$\frac{dw}{dz} = \frac{im}{z} + f(z)$$

m being real and $w = \phi + i\psi$ and $z = x + i\psi$.

In the part of the infinite plane bounded by a circular quadrant AB and the productions of the radii OA, OB, there is a two-dimensional motion due to the production of liquid at A and its absorption at B, at the uniform rate m. Find the stream function in polar co-ordinates referred to O as origin and OA as the initial line.

8. A given mass of liquid at rest is bounded internally and externally by two spherical surfaces. If the boundaries have prescribed velocities or are subjected to given impulses, prove that there is only one form of irrotational motion possible. What happens when the boundaries are two infinite cylinders?

A solid is projected in an infinite mass of incompressible fluid initially at

rest. Will it come to rest? Give reasons for your answer.

9. An ellipsoid is moving in an infinite mass of liquid at rest at infinity, in the direction of one of its axis with a given velocity. Find the velocity potential of the liquid motion.

A spheroid is surrounded by an infinite mass of liquid at rest, when suddenly a blow P is given to it along the axis of revolution. Find the motion of the spheroid.

10. Between the fixed boundaries

$$\theta = \frac{\pi}{2n}$$
 and $\theta = -\frac{\pi}{2n}$,

there is a two-dimensional liquid motion due to a source at the point $(r=c, \theta=a)$ and a sink at the origin absorbing liquid at the same rate as the source produces it. Find the stream function and shew that one of the stream lines is a part of the curve.

$$r^{2n}-2c^nr^n\sin n\alpha\sin n\theta=c^{2n}\cos 2n\theta$$
.

SIXTH PAPER.

The questions are of equal value.

N.B.—Answer three questions from each half.

Examiner MR. B. B. SEN, M.So.

1. If ϕ and ϕ' be the geographical and the geocentric latitude of a place respectively, prove that

$$\phi' = \varphi - \frac{e^2}{2 - e^2}$$
 cosec 1" sin $2\phi + \frac{1}{2} \frac{e^* \csc 1"}{(2 - e^2)^2}$ sin 4ϕ ,

approximately, where e is the eccentricity of the meridian section of the earth.

Show that the radius of the earth at a given latitude ϕ is

$$a \sqrt{\frac{\cos \phi}{\cos (\phi - \phi') \cos \phi'}}$$

a being the equatorial radius.

2. The altitudes of a given star when it crosses the meridian and the prime vertical of a place are α and α' respectively; show that if δ be the declination of the star and ϕ the latitude of the place,

cot
$$\delta = \sec \alpha \csc \alpha' - \tan \alpha$$
, cot $\phi = \tan \alpha - \sec \alpha \sin \alpha'$.

Show that for a small error in the measurement of altitude at a given place, the corresponding error in the measurement of hour-angle will be least when the star is on the prime vertical.

3. Obtain Bradley's formula for refraction in the form.

$$r=A \tan\left(z-\frac{nr}{2}\right)$$
.

If r be the horizontal refraction, show that the point of the compass where the sun rises is shifted through a distance.

$$r \cdot \frac{\sin \phi}{(\cos^2 \phi - \sin^2 \delta)^{\frac{1}{2}}},$$

where ϕ is the latitude.

4. When the son's longitude is l, if E be the equation of time (expressed in angle) due to the obliquity of the ecliptic (ω) alone, show that

$$\cot E = -\cot 2l - \cot^2 \frac{\omega}{2} \csc 2l.$$

Show that E has got the greatest value when

and

$$\tan \alpha = \sqrt{\cos \omega}$$

a being the R.A. of the sun.

5. Show that $\triangle \alpha$ and $\triangle \delta$, the annual changes in the R.A. and the declination of a star due to precession are given by

$$\triangle \alpha = 50^{\circ} \cdot 2 (\cos \omega + \sin \alpha \tan \delta \sin \omega)$$

 $\triangle \delta = 50^{\circ} \cdot 2 \cos \alpha \sin \omega$.

Prove that the points on the celestial sphere where the correction to R.A. for precession and nutation is zero on any given day lie on a cone.

6. Two planets move in non-coplanar circular orbits of radii a and b round the sun. Find their angular distance as seen from the sun when they appear stationary with respect to each other.

Show that the number of times an inferior planet appears to change from direct motion to retrograde motion in the course of one revolution of the

superior planet round the sun is the integral part of

$$\left(\frac{b}{a}\right)^{\frac{3}{2}}$$
 or of $\left(\frac{b}{a}\right)^{\frac{3}{4}}-1$,

where a and b are radii of the orbits supposed coplanar and b > a.

7. An equatorial telescope whose axis is adjusted to the apparent pole is pointed to a star very near the meridian. Show that if the telescope is to follow the star accurately, the rate of the clock must be diminished in the ratio.

$$1-k \cot \phi \tan z : 1$$
,

where ϕ = latitude of the place of observation and k, the co-efficient of refraction.

8. Find the amount of aberration in declination and R.A. of a star.

If two planets move in coplanar circular orbits of radii a and b respectively round the sun, show that aberration of one as seen from the other will be less in conjunction than in opposition in the ratio

$$\frac{\sqrt{a}-\sqrt{b}}{\sqrt{a}+\sqrt{b}}$$

9. In a horizontal sun-dial of the usual form show that the locus traced out by the end of the shadow of the style during one day is approximately a conic section of eccentricity.

cos (latitude) cosec (declination of sun).

10. Prove that the interval between the sun's transit and its culmination is

$$\frac{12m}{\pi} \{ \tan \phi - \tan \delta \} \text{ hrs.,}$$

where ϕ = the latitude of the place; δ = declination of the sun; and m = ratio of sun's motion in declination to its apparant motion in hour-angle.

If daylight be considered to begin and terminate when the sun is θ degrees below the horizon, prove that there are two latitudes which have the same duration of daylight, θ being numerically greater than the declination of the sun.

SEVENTH PAPER.

(ELASTICITY—FIRST PAPER)

The questions are of equal value.

FIRST HALF.

Examiner-Mr. K. Khastgir, M.Sc.

Attempt THREE questions only.

1. Obtain the equation of the strain quadric and discuss its properties.

$$\frac{3\iiint (u^{2}+v^{2}+w^{2})dXdYdZ}{\iiint (X^{2}+Y^{2}+Z^{2})dXdYdZ} = e^{\frac{2}{y}} + e^{\frac{2}{y}} + e^{\frac{2}{y}}$$

$$+\frac{1}{2}\left(e^{2}+e^{2}+e^{2}+e^{2}\right)+2\left(\widetilde{\omega}^{2}+\widetilde{\omega}^{2}+\widetilde{\omega}^{2}+\widetilde{\omega}^{2}\right),$$

u, v, w being the relative elastic displacements at a point (x, y, z) and the integrations being taken through a very small sphere with its centre at the point (x, y, z).

- 2. Prove that any elastic displacement (u, v, w) can be expressed as the sum of a gradient of a scalar function (ϕ) and the curl, of a vector function (F, G, H).
- 3. If V be the potential of a system of electric charges, determine the stress-system so that the traction across the tangent plane to the equipotential surface at the point is tension of amount $\frac{R^2}{8\pi}$, R being the resultant electric force at the point.
- 4. Establish the stress equations of equilibrium and express them in terms of the displacements when the body is isotropic.

Prove that, when there are no body forces

$$\nabla^2 X_x + \frac{1}{1+\sigma} \frac{\partial^2 \Theta}{\partial x^2} = 0$$

where

$$\Theta = X_s + Y_y + Z_s.$$

5. A body S is subjected to surface tractions only. Prove that the rate of increase of energy within S is equal to the rate at which work is done by the traction across S.

SECOND HALF.

Examiner-Dr. S. D. GHOSH, D.Sc.

Attempt THREE questions only.

1. Prove that in an isotropic solid of volume V, the average value of Δ is

$$\frac{1}{3k V} \iiint \rho (Xx + Yy + Zz) \, dx dy dz$$

$$+\frac{1}{3kV}\int\int (X_{\nu}x+Y_{\nu}y+Z_{\nu}z)dS.$$

A vessel of any form, of internal volume V, and external volume V, is subjected to internal pressure p_1 and external pressure p_2 . Show that its total volume will be diminished by the amount

$$p_{\circ}V_{\circ}-p_{\circ}V_{\circ}$$

- 2. Show how to determine the elastic displacements in an isotropic medium produced by the application of force within a small region.
- 3. Find the elastic displacements at any point of a body bounded by an infinite plane produced by pressure distributed over an area on the bounding plane.
- 4. Give a description of the method of series and the method of singularities as applied to the solution of potential problems.
- 5. A semi-infinite body bounded by the plane z=0 has displacements (u, v, w) given all over the plane face. Find the displacements at any point in the body.

EIGHTH PAPER.

(ELASTICITY—SECOND PAPER)

The questions are of equal value.

FIRST HALF.

Examiner—DR. J. M. GHOSH, D.Sc.

Attempt TEREE questions only.

- 1. Solve the torsion-problem for an isotropic elastic prism whose cross-section is a rectangle.
- 2. A beam of isotropic material is bent by a terminal load. Specify the corresponding strews-system at any point and the conditional satisfied by it.

The boundary of the cross-section of a beam of isotropic material i

an ellipse. Find the corresponding flexure-function.

3. Obtain the equations of equilibrium of a thin elastic naturally straight rod bent and twisted into any form.

How will the equations be modified if the rod were naturally curved?

4. State the problem of the clastica and explain its kinetic analogy with the motion of a pendulum.

Work out the problem of small buckling of a thin rod by forces applied at its ends in a direction parallel to that of the rod in the unstressed state.

5. A long thin rod is set up in a vertical plane so that the lower end is constrained to remain vertical. Show that the rod will be bent by its own weight if its height exceeds a certain maximum.

SECOND HALF.

Examiner-Dr. S. D. GHOSH, D.Sc.

Attempt THREE questions only.

1. Prove that the solution of the problem of free vibration of elastic bodies which start from given conditions of displacement and velocity is unique.

If (u_r, v_r, w_r) and (u_s, v_s, w_s) be any two sets of normal functions corresponding to two normal modes of free vibration of an elastic solid, shew that

$$\iiint \rho(u,u,+v,v,+w,w,)dx dy dz = 0.$$

where ρ is the density of the body and the integration is taken throughout the entire volume.

2. Shew that in an infinite isotropic solid body two kinds of waves can travel and find their velocities.

Solve the characteristic equation in the case of spherical waves.

3. Find the form of the wave surface in an infinite elastic medium when the strain-energy function W is given by

$$2W = A \triangle^{2} + L(e_{y}, {}^{2} - 4e_{y}, e_{xz}) + M(e_{x}, {}^{2} - 4e_{x}, e_{xz}) + N(e_{xy}, {}^{2} - 4e_{x}, e_{y}, e_{y}).$$

- 4. Discuss the problem of flexural vibrations of a thin rod clamped at both ends.
- 5. Obtain the frequence equation for radial vibrations of a sphere complets up to the centre.

SEVENTH PAPER

(TIDES AND SURFACE WAVES-FIRST PAPER)

The questions are of equal value.

Attempt SIX questions altogether, THREE from each half.

FIRST HALF

Examiner—Dr. J. M. Ghosh, D.Sc.

1. Establish the equation of free tidal waves in the form

$$\frac{\partial^2 \zeta}{\partial t^2} = gh \frac{\partial^2 \zeta}{\partial x^2}$$

and point out fully the assumptions on which it is based.

Work out the case of forced oscillations in a canal closed at one end and communicating at the other with an open sea in which a periodic oscillation is maintained.

2. Assuming that the moon's orbit lies in the plane of the equator, find the tidal elevation in a circular canal parallel to the equator.

Discuss briefly the nature of the tide.

3. Obtain the equation of wave-motion in a canal of variable cross-section.

Work out the case of a canal whose breadth is constant but whose depth varies according to the law

$$h = h_0 \left(1 - \frac{x^{\frac{1}{2}}}{a^{\frac{1}{2}}} \right),$$

x being measured in the direction of the length.

4. Obtain the expression for elevation in the case of tidal oscillations in a circular basis which shelves gradually from the centre to the edge according to the law

$$h = h_0 \left(1 - \frac{r^2}{a^2} \right)$$

Discuss specially the symmetrical modes of oscillation.

5. A spherical sheet of water of uniform depth surrounds a solid globe. Shew that, for free oscillations, the tidal elevation may be expressed as a general surface harmonic.

Discuss also the effect of a simple harmonic disturbing force and also of the mutual attraction of the parts of the liquid.

SECOND HALF

Examiner-DR. S. C. KAR, M.A., D.Sc.

6. Compare briefly the method adopted by Hough to solve the tidal equation with that employed by Laplace.

Prove the recurrence-equations :-

(i)
$$\frac{dP_{n+1}}{d\mu} - \frac{dP_{n-1}}{d\mu} = (2n+1)P_n$$
,

(ii)
$$\frac{1}{\sin^2\theta} \left[\left(\sin \theta \, \frac{d}{d\theta} \right)^2 - m^2 \right] P_n^m = -n(n+1) P_n^2.$$

7. Shew how a solution in the form of a power series may be obtained of the tidal equation,

$$\frac{d}{d\mu}\left\{\frac{1-\mu^2}{f^2-\mu^2}\frac{d\zeta}{d\mu}\right\} + \beta\zeta = \beta H(\mu^2-\frac{1}{3}),$$

for a sea covering the whole globe.

- 8. Obtain the tide-producing potential and explain how the lunar tide may be analysed broadly into three types.
- 9. Prove that tidal elevations travel faster than tidal depressions and that steady motion may be only approximately realised.
- 10. What is laminar motion of liquids? Shew in the light of such motion that the effect of viscosity on tides should be imperceptible beyond a very short distance above the bed.

EIGHTH PAPER

(TIDES AND SURFACE WAVES-SECOND PAPER)

Six questions to be attempted.

1. Determine the velocity of propagation V, of waves of length λ , along a canal of depth h in terms of gravitational and capillary forces, neglecting the density of air above, and shew that, for such waves on deep water, there is a wavelength λ_0 for which the velocity is a minimum.

Shew that for waves on deep water under gravitational and capillary forces, the group velocity is greater or less than the wave velocity according as

 λ is less or greater than λ_0 .

- 2. Give Korteweg and De Vries' theory of a system of oscillatory waves of finite height in a canal of limited depth.
- 3. Investigate the two-dimensional oscillations of water in a canal whose cross-section consists of two straight lines inclined at 60° to the vertical.
- 4. A stream is flowing with uniform velocity V in the direction of x-axis over a corrugated bed whose section is given by

$$z = -h + \gamma \cos kx$$
.

Find the stationary waves on the free surface and shew that the ridges of the free surface are vertically over the ridges or hollows of the bed of the stream according as V is greater or less than the velocity in still water of depth h, of

waves of the same length $\frac{2\pi}{k}$ as the corrugations.

- 5. Give Kelvin's idea of wave-pattern produced by the motion of ships. Obtain the cartesian equation of the wave-curves and give a rough sketch of them.
 - 6. Prove that the stream function

$$\psi = c(z - ke^k \cdot \cos kx)$$

may represent a steady wave motion of finite amplitude and that in that case the wave velocity varies with the amplitude.

Shew further that with such waves the wave-crest may, in an extreme

case, show a sharp angle of 120°.

7. Shew that the two-dimensional motion of a viscous liquid may be described by two functions, one of which is harmonic.

With waves on the free surface of a viscous liquid of infinite depth, shew that the motion is rotational and the vorticity diminishes from the surface downwards.

S. Two immiscible liquids of different densities rest, one on the top of another, and flow with different velocities. Find the velocity-potential of either for steady wave-motion.

Discuss the problem of the flapping of sails in a wind.

9. A ship is moving with velocity $c(<\sqrt{gh})$ through still water of depth h. Assuming that the only disturbance of water, that survives at a great distance is a simple harmonic one in the wake of the ship, explain how the resistance encountered by the ship may be obtained in the form

$$R = \frac{1}{4} g\rho a^{2} \left\{ 1 - \frac{4\pi h}{\lambda \sinh \frac{2\pi h}{\lambda}} \right\},$$

where λ is the wavelength corresponding to the velocity c.

10. The free surface of a large extent of water is supposed to have an initial deformation given by

$$\zeta = f(x) = \frac{Q}{\pi} \cdot \frac{b}{b^2 + x^2}$$
.

Prove that at any subsequent time the disturbance would be given by

$$\zeta = \frac{Q}{\pi} \int_{-\pi}^{\infty} \cos \sigma t \ e^{-k h} \cos kx \ dk \cdot [\sigma^2 = gk].$$

Show further that this disturbance at the origin will only die out in infinite time.

SEVENTH PAPER

(ADVANCED ASTRONOMY-FIRST PAPER)

The questions are of equal value.

N.B.-Answer SIX questions, THREE from EACH half.

FIRST HALF

1. Explain why the arithmetic mean of series of measurements of a quantity is taken to be the most probable value of that quantity.

If e_1, e_2, e_3, \dots be mean errors of the independent quantities x, y, z, \dots find the mean error of

- (i) $ax \pm by \pm cz \pm \dots$
- (ii) $f(x, y, z, \ldots)$.

If s be the probable error of each of the measurements of a quantity, find the probable error of their arithmetic mean.

2. There are two walls of equal height h at right angles to each other and running in known directions. Show how to find the sun's altitude and azimuth by observing the breadth of the shadows of the two walls at a given time, and prove that the sum of the squares of the breadths of the shadows will be the same whatever be the directions of the walls.

- 3. Obtain the differential formula for refraction on Bessel's hypothesis.

 Calculate the curvature of the refracted ray at the position of the observer.
- 4. Assuming the moon to be an oblate spheriod, show that the apparent curve of illumination is composed of two semi-ellipses whose equations you are to obtain.
- 5. Assuming the spheroidal form of the Earth, establish dynamically the phenomenon of precession and nutation as caused by solar attraction. Find the eccentricity of the ellipse described by the celestial pole due to solar nutation.

SECOND HALF

Examiner—DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

- 6. Give an account of stellar evolution as evidenced by existing types and show that the nebular hypothesis fairly well accounts for stellar evolution but not that of the solar system.
- 7. Explain how you would determine the longitude of a place from an observation of the eclipse of the sun.

Investigate the correction of longitude for error in the elements of computation.

8. Find the position of the points to which stars aberrate taking account of the eccentricity of the earth's orbit.

Verify that the dimensions of the aberrational ellipse are unaffected by eccentricity.

9. Assuming that the diameters of the earth and Venus are negligible, show that the heliocentric elongation (ψ) of Venus from the earth at the moment of the commencement or the end of a transit is given accurately by

 $b^2r^2\cos^2\psi - 2b\tau R^2\cos\psi + R^2(b^2 + r^2) = b^2r^2$, where R is the sun's radius, and b, τ the distances of Venus and the earth from the sun's centre.

10. Investigate the relation between the mean and apparent places of stars at any time.

Explain how the apparent place of a star can be derived from the catalogues.

EIGHTH PAPER

(ADVANCED ASTRONOMY—SECOND PAPER)

The questions are of equal value

N.B.—Answer SIX questions, THREE from EACH half.

FIRST HALF

Examiner-Dr. Hrishikesh Sarkar, D.Sc.

- 1. Explain the theory of Map-making. Calculate the conditions that a Map shall be conformal. Defining attreographic projection in the usual way, prove that it is a conformal representation. Shew that it can be derived from Mercator's projection. Obtain a general formula for stereographic projection and deduce that the stereographic projection of any circle on a sphere is also a circle.
- 2. Define occultation. Obtain an equation to calculate the time of commencement or ending of an occultation of a star by the moon, and have an approximate solution of your equation. Find the points on the moon's limb at which the star disappears and reappears.

3. Derive a rigorous differential equation for refraction in the form

$$dR = \frac{d\mu}{\mu} \frac{\sin z}{\sqrt{\frac{\mu^{2} r^{2}}{\mu_{1}^{2} a^{2}} - \sin^{2} z}}.$$

Assuming $\mu^2 - 1 = 2c\rho$ and $\frac{r}{a} = 1 + \frac{h_1}{a}x$,

transform the above equation in the form

$$R = Am \tan z$$
, where $m = \int_{0}^{1} \frac{dw}{\sqrt{1 + 2u \sec^2 z}}$

w denoting $1 - \frac{\rho}{\rho_1}$, and u representing a function of x and w, which is to be exhibited.

Developing m in the form

$$m=1-m_1 \sec^3 z + m_2 \sec^4 z \dots$$

calculate m_1 on any hypothesis and m_2 on Ivory's hypothesis.

4. Prove that the effects of annual parallax in a star S which has a parallax σ , on the distance D and the position angle p of an adjacent star S' which has no parallax are given by

$$D' = \sigma m \cos \left(\bigcirc -M \right)$$

$$p' = \sigma m' \cos((\bullet) - M') \csc D$$
,

where \odot is the longitude of the sun and m, M and m', M' are auxiliary quantities to be specified.

Shew that the greatest variation in the apparent distance of the two stars S and S' is $2\sigma (\sin^2 \beta \cos^2 B + \sin^2 \beta) \frac{1}{2}$ where β is the latitude of S' and B is the angle which S' and either pole of the ecliptic subtends at S.

5. If (α, δ) denote the place in time t corresponding to the mean place (α_0, δ_0) of a star, due to the effects of precession and proper motion, shew that

$$\alpha = \alpha_0 + (p_{\alpha} + \mu_{\alpha})^{t} + \frac{1}{2} t^2 D_{\alpha},$$

$$\delta = \delta_0 + (p_{\delta} + \mu_{\delta})^{t} + \frac{1}{2} t^2 D_{\delta},$$

where $p_a^{\bullet} = m + n \sin \alpha_0 \tan \delta_0$, $p_{\delta} = n \cos \alpha_0$

$$m=k\cos\omega, n=k\sin\omega$$

$$D_{\alpha} = \frac{dm}{dt} + \frac{dn}{dt} \sin \alpha_0 \, \tan \delta^0 + n(p_{\alpha} + 2\mu_{\alpha}) \cos \alpha_0 \, \tan \delta_0$$

$$+n(p_3+2\mu_3)\sin\alpha_0\sec^2\delta_0+2\mu_a\mu_3\tan\delta_0$$

$$D_{\delta} = \frac{dn}{dt} \cos \alpha_0 - n(p_{\alpha} + 2\mu_{\alpha}) \sin \alpha_0 - \frac{\mu \alpha^2}{2} \sin 2\delta_0,$$

k is the constant of precession, ω the obliquity of the ecliptic, and μ_a , μ_b are the proper motions in R.A. and declination respectively, expressions for which you are to find.

SECOND HALF

Examiner-DR. N. N. SEN, D.Sc.

6. Show that the altitudes of two known stars at a known Greenwich time are sufficient to determine the latitude and longitude of the place of observation.

If the stars chosen for observation are on opposite sides of the meridian at azimuths A_1 and A_2 , and the observed altitudes are both erroneous to the extents ϵ_1 and ϵ_2 respectively, find the errors in latitude and longitude.

- 7. Prove that the parallax diminishes the moon's azimuth by $\frac{e^2}{2} \sin 2\phi \sin \pi' \phi$ sin a cosec z approximately where e is the eccentricity of the earth, ϕ of the latitude and $\pi' \phi$ moon's horizontal parallax, and a the azimuth of the moon.
- 8. Explain the method of determining unknown quantities from observations when the quantities are connected by rigorous equations.

The angles of a plane hexagon are found to be $x_1, x_2, x_3, \ldots, x_n$, with weights w_1, w_2, \ldots, w_n respectively. Find the most probable values of the angles.

9. What are variable stars? Explain how the distances of 'Island Universes' are estimated.

Describe, as briefly as possible, the planetesimal Hypothesis of the Evoluon of the Solar System.

10. Explain the 'Tidal Evolution Theory' for the Earthmoon System. Does it apply to the whole of the Solar System? What is the future history of he moon according to the Tidal Theory?

SEVENTH PAPER

(GEODESY AND GEOPHYSICS-FIRST PAPER)

The questions are of equal value.

Not more than SIX questions are to be answered.

1. Shew that the length of a meridian arc between two stations on the surface of the earth is given by

$$S = a(1 - \frac{1}{4}e^2) \triangle \lambda - \frac{\alpha}{4}ae^2 \sin \triangle \lambda \cos 2\lambda o,$$

where $\Delta \lambda$ is the difference between the latitudes of the two stations and λ_0 the mean of their latitudes.

Shew how to obtain the dimension of the earth from the measurement of two meridian arcs. Is this method accurate?

2. Four observations of equal weight give the following equations

$$x+y+z=7$$

$$x+y-3z=-6$$

$$x+2y-z=3$$

$$3x-y+z=4$$

Find the best values of the quantities x, y, z.

3. What are the essential features of Mercator's projection in map-making? Establish the formulae for this projection.

If β is small enough for $\tan^3 \frac{1}{2}\beta$ to be neglected, show that the difference of the distances of a place, whose latitude is β , from the equator on the Mercator's chart, and on a chart obtained by projecting from the centre of the earth on the enveloping cylinder touching the earth along the equator is

$$(\frac{2}{3} \tan^3 \frac{1}{2}\beta) \times (\text{the earth's diameter}).$$

4. Explain how you will calculate the difference of longitude between two stations from geodetic data.

Describe a method for the location of a parallel of latitude on the surface of the earth.

5. What do you understand by "the deflection of the vertical at a station"? Calculate this deflection.

What are Laplace points?

- 6. Describe briefly the methods used for the determination of the value of g at a station.
 - 7. Prove Clairaut's theorem

$$g = g \cdot \{1 + (\frac{5}{2}m - \epsilon) \sin^2 \phi \}$$
,

where • is the latitude. How is the figure of the earth deduced from Clairaut's theorem?

- * 8 Describe the method of trigonometrical levelling. Obtain a formula for the determination of the difference of heights between two stations by this method.
- 9. Describe briefly the operations to be carried out for the measurement of an arc on the surface of the earth, mentioning the points to be noted in this connection.

PQ is a portion of a base-line AB which is to be measured. If b be the length of PQ, i the small angle which PQ makes with the horizontal plane at P, h the height of P above the reference ellipsoid whose radius of curvature at the point just bellow P is R; prove that the length of the arc AB when reduced to the reference ellipsoid will be

$$2b-\frac{1}{2}2bi^2-2\frac{bh}{R}.$$

EIGHTH PAPER

(GEODESY AND GEOPHYSICS—SECOND PAPER)

The questions are of equal value.

Not more than SIX questions are to be answered.

1. What are Green's functions? Shew how with their help you can determine the value of the potential V at any point of an infinite space outside a surface S which completely encloses all attracting matter, when the value of either

$$V$$
 or $\frac{\partial V}{\partial n}$ is given at every point on the surface S .

2. Obtain Clarraut's differential equation for the ellipticity of the Earth's strata of equal density in the form

$$\frac{d^2\epsilon}{dr^2} + \frac{6\rho r^2}{S(r)} \frac{d\epsilon}{dr} - \left(1 - \frac{\rho r^3}{S(r)}\right) \frac{6}{r^2} = 0.$$

- · 3. Assuming the differential equation in Question 2 or otherwise, prove that the ellipticities of the strata of equal density increase steadily from the centre to the surface.
- 4. Describe Eötvös torsion balance and shew how the second differential coefficients of the earth's potential can be measured by it.
 - 5. Obtain Bouguer's correction of the value of g in the form

$$\delta g = -\frac{3}{2} \frac{\rho}{\rho_m} \cdot \frac{h}{R} g.$$

What do you understand by isostasy? Describe the theories of isostatic compensation.

- 6. How is the mean density of the earth determined? Describe briefly the various methods used by different investigators for this purpose.
 - 7. Write a short essay on "Earth-quake waves."
- 8. Explain clearly what you understand by "time curves" and "angle of emergence". How is the angle of emergence determined? What is its importance in seismic calculations?
- 9. In a canal of uniform section, when in addition to gravity a small disturbing force X acts on the liquid parallel to the length of the canal, shew that the equation of motion is

$$\frac{\eth^2 \xi}{\eth t^2} = gh \frac{\eth^2 \zeta}{\eth x^2} + X.$$

Assuming that the moon's orbit is circular and coincident with the plane of the earth's equator, discuss the tidal oscillations in a canal coincident with the equator.

SEVENTH PAPER

(ELECTRICITY—FIRST PAPER)

The questions are of equal value.

Answer ANY BIX questions.

- 1. Write a short note on the application of the method of inversion in electrostatic problems. Apply the method to obtain the distribution of electric charges on a sphere put to earth under the influence of a point charge at an external point P.
- 2. Enunciate and prove Thompson's theorem of minimum energy for an electrostatic field. Calculate the capacity and energy of a cylindrical condensor and show that when the two coaxial cylinders are very close compared to their radii the expression for capacity is the same as for a plate condensor.

3. Show that the work done by the forces in an electrostatic field for a small displacement q of a dielectric material with dielectric constant ϵ is given by the integral

$$\int \left(q, \rho E - \frac{1}{8\pi} E^2 \nabla \epsilon\right) dv,$$

where E is the electric intensity due to a volume distribution of charges of density ρ .

- 4. Enunciate the laws of Kirchoff regarding the flow of electricity in a network of conductors, and prove that the current which flows from A to B when an electromotive force E is introduced into the arm CD of a network is equal to the current in the arm CD when the same electromotive force is introduced in AB.
 - 5. Define permeability and susceptibility of a magnetic material.

A solid ellipsoid of soft iron, semi-axes a, b, and c and permeability μ is placed in a uniform field of force X parallel to the axis of α which is the direction of the major axis. Verify that the internal and external potential of induced magnetisation are

 $\Omega_1 = PA_1x$, $\Omega_0 = PA_0x$,

where

$$A_{1} = \int_{0}^{\infty} \frac{d\psi}{(a^{2} + \psi)^{\frac{3}{2}} (b^{3} + \psi)^{\frac{1}{2}} (c^{3} + \psi)^{\frac{1}{2}}},$$

$$A_{c} = \int_{\lambda}^{\infty} \frac{d\psi}{(a^{2} + \psi)^{\frac{3}{2}} (b^{2} + \psi)^{\frac{1}{2}} (c^{2} + \psi)^{\frac{1}{2}}},$$

$$P = \frac{(\mu - 1)X}{(\mu - 1)A_{1} + 2(abc)^{-1}},$$

and λ is the parameter of the confocal through the point concerned.

- 6. Show that the velocity of propagation of electromagnetic action is numerically equal to the ratio of the electromagnetic and electrostatic unit of charge.
- 7. Define the vector potential of a magnetic field. Find an expression for the magnetic field due to a linear circular conductor.
- 8. Find the quasistationary electric vibration in a circuit containing a resistance, a capacity, and a self-inductions

Calculate the self-induction of a thin, wire bent in the form of a circle of radius R,

- 9. Work out a theory of the reflecting power of metals from the point of view of the electromagnetic theory. Show that for a metal like copper with conductivity $\sigma = 5^{\circ}14 \times 10^{17}$ and for infrared wavelength $\lambda = 1^{\circ}2 \times 10^{-3}$, nearly 98% of the radiation will be reflected.
- 10. Show how from a consideration of the laws in an electromagnetic field the three kinds of electrical units in use can be logically obtained. Find the dimensions of the following quantities in the three units: magnetic vector, electric resistance, self-induction, and polarisation vector.

EIGHTH PAPER

(ELECTRICITY—SECOND PAPER)

The questions are of equal value.

Answer ANY SIX questions.

- 1. Establish the equations of motion of a rigid electron which possesses both translational and rotational motion in an external electromagnetic field. Prove that the work done by the internal electromagnetic forces in an electron is equal and opposite to the work done by the external forces.
- 2. Deduce by a Lorentz transformation or otherwise the electric field of a uniformly moving electron.
 - 3. Assuming the Lorentz force to be of the form-

$$F = E + \frac{1}{c} [VH]$$

show that the force exerted on a system of electrons may be regarded as the rate of diminution of a certain quantity distributed over the whole of space.

- 4. Write a note on the theory of the electromagnetic mass of an electron and show that this conception is consistent with the principles of momentum and energy. Apply this theory to determine the mass of a Lorentz electron.
- 5. Give on a classical basis the electron theory of the rotation of the plane of polarisation in a magnetic field.
- 6. Prove, after Lorentz, that an electron inside an isotropic material medium should be acted upon by a force $\frac{\epsilon+2}{3}$ eE, where ϵ is the dielectric constant and E the vectorial field intensity.
- 7. Show that the Lorentz transformation is equivalent to an imaginary rotation in space. Hence deduce Einstein's law of addition of velocities and Fresnel's coefficient for a moving medium.
- 8. Define four velocity and four acceleration. Show that the latter is always perpendicular to the world line.
- 9. What is the effect of Lorentz transformation on an electromagnetic wave, say, a sine wave? Work out the Doppler effect in frequency and direction of the ray.
- 10 How would you write down the equations of energy and momentum in a form which is invariant with regard to Lorentz transformation? How is energy transformed from one inertial system into another?

PHYSICS

FIRST PAPER

The questions are of equal value

Not more than THREE questions to be answered from BACH half

FIRST HALF

Examiners { Prof. D. M. Bose, M.A., D.Sc., Ph.D. DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

1. Deduce an expression for the forced oscillation of a quasielastically bound system with one degree of freedom, subject to a damping force proportional to its velocity. How is the sharpness of tuning of such a system defined? Show how the maximum energy of oscillation depends upon the damping coefficient and on other factors.

Give a physical illustration of such a system.

- 2. Show how Kepler's laws of planetary motion can be deduced from Newton's law of gravitation. How did Newton prove that the motion of the moon round the earth is due to the latter's gravitational attraction?
- 3. A rigid body supported at its centre of gravity is acted on by gravitational forces only. Find the integrals of its equations of motion and give a geometrical interpretation of the motion of the rigid body.

4. Write down the equations of motion of an element of volume of an elastic body, and interpret the different terms which appear in them.

Show that in the case of an isotropic body, two types of waves will be propagated through it. Discuss their nature and find their velocities of propagation.

A fluid at rest is subject to a conservative system of forces. Show that the surfaces of equal pressure coincide with the surfaces of equal

Ts this also true in the case of a fluid in motion? Investigate the

point.

SECOND HALF

Examiners { Mr. Durgadas Banerjee, M.Sc. Dr. B. B. Ray, D.Sc.

1. Establish from the principle of Virtual work the condition which favours the resting of a drop of liquid on another liquid and illustrate it by a suitable example.

2. Describe the theory and workings of any modern pump used in the

laboratory for high vacuum purposes.

3. Describe an experiment by which the Maxwell distribution law has been verified.

4. Write a short note on Brownian movement. Show how you can explain the phenomenon from statistical considerations.

5. Give the theory of the method for determining the viscosity of a liquid involving the use of two Co-axial Cylinders moving with respect to each other.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiners— { Mr. Susilkumar Acharyya, M.Sc. Dr. Brojendranath Chuckerbutty, D.Sc. , Snehamay Dutta, D.Sc.

Only THREE questions to be attempted

1. Deduce a relation between the pressure and volume of a perfect gas for adiabatic changes.

Hence deduce the rate of fall of temperature with height in an atmosphere assumed to be dry and in convective equilibrium.

2. Describe briefly how the specific heat of gases at low temperatures has been measured.

Explain why the specific heat of hydrogen at low temperatures tends to the value 3/2 RT.

- 3. What is the Phase Rule? Deduce it from thermo-dynamic considerations and give suitable illustrations.
- 4. Give a proof of Planck's Radiation formula and indicate its relation to earlier formulæ for black-body radiation.

How has the Planck formula been tested experimentally?

5. Deduce the Saha ionisation formula and indicate some of its applications.

SECOND HALF

Examiners - { Mr. Jogeschandra Mukherjee, M.A. Dwijendrakumar Majumdar, M.A.

Only THREE questions are to be attempted

- 1. Derive from the principle of collinear correspondence the relation connecting the focal planes and the object and image planes in a co-axial optical system and hence find out expressions for the various magnifications.
- 2. Trace the development of the modern photographic objectives, discussing the merits and demerits of each class.
- 3. The refractive index of light as directly determined in the case of a dispersive medium does not tally with that determined from a ratio of the velocities. How will you explain the discrepancy?
- 4. Enunciate Babinet's principle. Hence deduce the nature of the diffraction due to several equal, small, and irregularly placed circular apertures.
- 5. Describe any form of interference spectroscope, mentioning its advantages over other forms of spectroscopes.

THIRD PAPER

Examiners— { Mr. P. C. Mahalanobis, M.A. , Susilkumar Acharyya, M.Sc. Dr. Brojendranath Chuckerbutty, D.Sc.

The questions are of equal value

Answer ANY SIX questions

- 1. Discuss the molecular theory of specific inductive capacity, and deduce a relation between this property and the number of molecules in the medium per unit of volume.
- 2. Find an expression for the mechanical force acting on a magnetisable body placed in a non-uniform magnetic field.

What experimental application has the formula found?

- 3. A condenser is charged and after a certain interval is discharged through a ballistic galvanometer. Explain how from the observations the conductivity of the dielectric may be determined.
- 4. Discuss the theory of Grassot fluxmeter, and explain how the instrument may be used for the measurement of field strengths in various cases: (a) strong fields, (b) weak fields, (c) uniform fields, and (d) nonuniform fields.
- 5. Deduce an expression for the effective resistance of a conductor carrying an alternating current of high frequency.
 6. Investigate the flow of energy in an electromagnetic field.

7. Find an expression for the radiation field due to a Hertzian oscillator.

8. Deduce the form of the wave-surface in a biaxial crystal.

9. Describe how the propagation of electromagnetic waves on wires may be experimentally studied.

Indicate some applications of the arrangement described by you.

FOURTH PAPER

Answer ANY THREE questions from EACH half

The questions are of equal value

FIRST HALF

Examiners— { MR. CHARUCHANDRA BHATTACHARYYA, M.A. , K. S. KRISHNAN, M.Sc.

- 1. Describe Aston's mass-spectrograph and show how an accurate determination of atomic masses can be made with the instrument. How are the results of such a determination significant?
- 2. Give a theory of the Compton effect. How have the consequences of the theory been verified by experiment?
- 9. Describe, in detail, some method of measuring accurately the range in air of a particles emitted by a radio-active substance. Do you know of any relation between this quantity and the rate of decay of the substance?

4. Give a description of the cloud-chamber apparatus of C. T. R. Wilson and discuss critically the part played by the apparatus in the

development of modern physics.

5. 'The resultant positive charge on the nucleus of an atom, measured in "electronic" units, is exactly equal to its atomic number.' Give an account of the experiment by which the statement has been verified.

SECOND HALF

(ELECTRON THEORY)

1. Deduce the equation of thermionic emission

i (saturation current per unit surface) = $AT^{2}e^{-h}/T$.

Discuss how it has been shown that the value of A may be deduced from certain universal constants.

2. Deduce the De Broglie expression $\lambda = h/mV$ for the length of the waves associated with an electron moving with a velocity V.

Explain how this has been tested experimentally. 3. Sketch the theory of diamagnetism.

4. Give an account of the Bohr-Sommerfeld theory of the hydrogen

spectrum.

5. Find an expression for the refractive index of a gas as a function of the frequency of the incident light.

FIFTH PAPER

(Group A)

X-RAYS AND CRYSTAL STRUCTURE

The questions are of equal value

Answer Any SIX questions. Question 8 counts as two questions

1. Give J. J. Thomson's theory of X-ray scattering and derive an expression for the energy of X-rays scattered by light elements. How far does the classical theory accord with experimental results?

2. State the various methods available for the measurement of the wavelength of hard X-rays and \gamma\ -rays. Describe the photoelectric method

for such measurement in full detail.

3. Describe the general characters of the continuous X-ray spectrum and explain how the Planck constant can be evaluated from a study of it. What relation does the total energy of the general radiation bear to the voltage applied to the X-ray tube?

4. Describe the experimental methods employed by Siegbahn for the

precision measurement of wavelengths on the X-ray spectrometer.

5. Explain the methods used for measuring the refractive index of X-rays and indicate the significance of such measurements in relation to dispersion theory.

- 6. Explain how the erystal structure of ZnS has been completely determined.
- 7. What are the primary and secondary absorption edges in X-rays? Write a note on the dependence of these edges on chemical composition in various compounds.
 - 8. Write an essay on :--
- 'The structure of atoms as revealed by the study of their X-ray emission spectra.'

(Group B)

SPECTROSCOPY

Examiners—

DR. SNEHAMAY DATTA, D.Sc.
PROF. P. N. GHOSH, M.A., PH.D., Sc.D.
F.INST. P.

The questions are of equal value

Only FIVE questions are to be attempted

1. What led Bohr to introduce the motion of the nucleus in deducing his theory of the spectrum of ionised Helium? Deduce the theory and explain how it enables us to find an accurate value of e/m.

2. What is a 'spectral term' as applied to an atom.

Discuss the significance of the different quantum numbers involved in it.

Calculate the spectral terms of a normal Mg-atom.

What do you mean by Paschen-Back Effect and Lande's splitting

factor? Discuss their significance.

4. What results have been obtained from a study of the absorption spectrum of potassium vapour? How does it differ from the emission spectrum of potassium?

Discuss the importance of such absorption experiments in relation

to atomia structure.

- 5. Describe any modern experimental method by which the energy of line excitation has been correlated to that of electronic impact. Discuss the importance of these experiments in spectroscopy.
- 6. Describe any type of mounting a concave grating and discuss the theory underlying it.
 - Write short notes on the following:-
 - (a) Band origin.
 - (b) Band sequence.
 - (c) The irregular doublet law.
 - (d) Effective quantum number.
 - 8. Write a short essay on the Isotope effect in Optical Spectra.

(Group C)

ELECTRICAL OSCILLATIONS AND WIRELESS

Examiners—{ PROF. S. K. MITRA, D.Sc. MR. C. AUSTIN.

The questions are of equal value Only SIX questions to be attempted

- 1. (a) Discuss the voltage and current distribution in a single wire antenna with reference to the effects of-
 - (i) loading coil,
 - (ii) shortening condenser.

(b) An aerial is to be erected in open country suspended from two steel masts. Equal radiation in all directions is required. Draw a sketch showing the form of aerial to be used. Give the reasons for the form shown.

2. Deduce briefly Maxwell's Field Equations. Hence prove that in free

2. Deduce briefly Maxwell's Field Equations. Hence prove that in free space electromagnetic disturbance is propagated with the velocity of light.

- 3. Prove that at a small distance from the transmitting antenna the field consists of two parts, a radiation field and an induction field. Hence show that the electric field strength E (volts per cm.) at a distance large compared with the wave-length is given by $\frac{377h.I.}{\lambda D}$ where h, is the effective antenna height in cms., I, the effective aerial current in amperes, λ , the wavelength in cms., and D the distance from the antenna in cms. (The surface of the earth is assumed to be a perfectly conducting plane.)
- 4. (a) Discuss the relative advantages of a vertical and a frame aerial for the purpose of reception.
- (b) Discuss the effect of frequency on the dissipation of energy in a transmitting antenna system (the system being taken to include masts, transmitter, buildings, and any natural features such as grass, trees, water, etc., in the close vicinity).
- 5. What is meant by the mutual conductance and the amplification factor of a valve? Deduce an expression for the latter in terms of the shape, size, and relative positions of the grid, filament, and plate.
- 6. Deduce the conditions for the maintenance of electrical oscillations in a circuit with the help of the triode valve.

Draw a vector diagram showing the phase relations between the oscillatory voltages and currents set up in the various branches of the circuit.

7. Describe three methods of ensuring constancy of wavelength in use on modern transmitters, comparing their advantages and disadvantages.

Discuss the effect on frequency of a valve transmitter where a master oscillator valve controls the frequency and no precautions are taken against temperature changes.

8. What is meant by 'percentage of modulation' in radio-telephony? Describe an experimental method of determining the same practically or describe a method of determining the frequency response of a telephony (or broadcast) transmitter. Over what range should the response be level to ensure good reproduction?

9. Develop the theme of the propagation of electromagnetic waves round the surface of the earth postulating the existence of an ionised upper

atmosphere.

Describe some experimental method of estimating the height of the lower limit of the ionised atmosphere.

(Group D)

RELATIVITY

Examiners { Mr. P. C. Mahalanobis, M.A., Satyendranath Bose, M.Sc.

N.B.—Attempt ANY FIVE questions. The essay will count as two questions; all other questions carry equal marks

1. Discuss the principle of conservation of mass and energy in the special relativity theory. What application of the principle has been recently made in the discussion of the disintegration of atoms?

2. Write a note on the various optical phenomena observed when the

source and the observer are moving with constant relative velocity.

8. The Michelson-Morley experiment to detect the motion of the earth relative to the ether gave a negative result. But Michelson successfully developed an interference method of detecting the daily rotation of earth round its axis. Discuss these two results from the standpoint of relativity theory.

Give a careful statement of Einstein's Law of Gravitation and discuss its relation with the Newtonian Theory of Gravitation. Deduce any result which will distinguish between the two theories, and indicate how

far actual observations are in agreement with the predicted results.

5. Rewrite in tensor form Maxwell's equations of the electromagnetic field, and calculate the contribution of the electromagnetic field to the material energy tensor.

- 6. Calculate the gravitational effect of a charged singularity.
 7. Explain the notion of parallel displacement. Show that the vanishing of the Reimann-Christoffel tensor is the necessary and sufficient condition that the continuum is homaloidal.
 - Write an essay on one of the following subjects:-
- (a) Recent attempts at developing a Unitary Field Theory of Blectricity and Gravitation.

(b) The size of the universe.

(c) Relation of the Relativity Theory and the Quantum Theory.

APPLIED PHYSICS

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiners { Mr. S. K. Acharyya, M.Sc. P. C. Mahanti, M.Sc.

ANY THREE questions will carry full marks

1. State the fundamental law of the electrostatic field, and show that if the total charge of every conductor in the field is given, there is only one way in which these charges can distribute themselves so as to be in equilibrium.

2. Write a short note on 'Electrical Inversion.'

Discuss clearly a suitable example to illustrate the principle of its

application.

3. A cable contains a core of copper wire of cross-section 2 sq. mm. It is insulated by a layer of caoutchouc (relative dielectric constant 3) 5 mm. thick and enclosed in an outer covering of lead. What is its capacity per kilometer?

Explain clearly how the insulation resistance of a cable is measured

in the laboratory.

4. Describe the construction of the Burrows Permeameter.

How would you determine the B-H curve with the help of this instrument?

5. What is Lumen?

Give the constructional details of a Lummer-Brodhum photometer and discuss its use.

SECOND HALF

Examiners— { MR. K. P. CHOKESEY, A.M.I.E. p. C. MAHANTI, M.Sc.

Only THREE questions are to be attempted

1. Find an expression for the E.M.F. generated in the case of a D.C. Generator.

A conductor 12 in. long on the periphery of an armature of diameter 18 in. rotates at 1,000 R.P.M. If the field strength under the poles is 6.000 lines per sq. cm., find the e.m.f. induced in the conductor.

2. What is meant by armature reaction in a direct current machine?

Describe a few methods adopted for preventing armature reaction from causing bad commutation under varying load, stating their relative advantages.

How are the eddy-current, hysteresis, and friction losses of a D.C. machine separated experimentally?

- 3. Plot the speed characteristic against load current of the following types of motors, explaining the suitability of each for its special work:—
 - (a) Shunt.
 - (b) Series.
 - (c) Cumulative Compound.
 - (d) Differential Compound.
- A 20 H.P. direct current shunt motor has a full load efficiency of 88 per cent. when supplied with power at 200 volts, its armature resistance being 0.06 ohm and shunt resistance 80 ohms. Find approximately, indicating the assumptions made, the percentage change in speed from no load to full load.
 - 4. What is reartance voltage?

Calculate the reactance voltage at full load of an armature having the following constants:—

•••	•••	0.45 meters.
		600 R.P.M.
•••	•••	357
•••		0.65 cms.
•••		152 cms.
•••		14.8 cms.
	•••	1
		60 amps.
•••	•••	2

5. Work out the efficiency of a booster over a simple motor generator when power is required at a voltage higher than the supply potential difference.

Why is a negative booster used in traction work? Explain briefly its action.

What arrangements are commonly employed to obtain uniform conditions in a three-wire generator with static balancer?

SECOND PAPER

The questions are of equal value

Only three questions are to be attempted from each half

FIRST HALF

- 1. A current of 50 frequency, containing first, third, and fifth harmonics of crest value 100, 15, 12 amperes respectively, is sent through an ammeter and an inductive coil of negligibly small losses. A voltmeter connected to the terminals shows 75 volts. What will be the current indicated on the ammeter, and what is the exact value of the inductance of the coil in henries?
- 2. One branch of a parallel circuit contains an inductive coil of resistance R_1 ohms and of inductance L_1 henries. The other branch consists of another inductive coil of resistance R_2 ohms and inductance L_2 henries, in series with which (i.e., the second coil) is connected a condenser of adjustable capacitance (C) and an adjustable non-inductive resistance (R).

Determine the values of capacitance (C) and resistance (R) which will give equal currents in the two branches with a phase difference of 90°, with respect to each other, assuming that the parallel circuit is connected to a source of sinusoidal E.M.F. of constant amplitude and frequency.

Determine the values of C and R when

$$L_1 = L_2 = 0.2$$
 henry,
 $R_1 = R_2 = 10$ ohms,
 $w = 2\pi f = 314$.

- 3. (a) Discuss the effects of low power factor in an electrical supply system on the—
 - (i) size and performance of Alternators, Transformers, and Prime Movers;

(16) losses on transmission lines;

(iii) voltage regulation of the whole electrical system.

(b) A consumer takes 150 amps, from a 400 volt 50 cycle single-phase supply with a lagging power factor 0.7. Calculate the capacity of the condenser required to increase the power factor to unity, and find the new value of the current in the mains.

If the condenser for the purpose cost Re. 1 per microfarad and energy 1½ annas per unit, find how long it will be before the condenser will have saved its cost if the resistance of the mains is 0.05 ohms.

4. Explain fully how a synchronous motor can be utilised to improve

the power factor of a circuit in which the load is mainly inductive.

If the load on a 500 volt system consists of a synchronous motor taking 50 kw. at unity power factor and induction motors taking a total of 150 kw. at an average power factor 0.6, find the power factor of the whole load and the value to which this rises when the synchronous motor is made to take leading currents with power factors (a) 0.8, (b) 0.5.

If the armsture resistance of the synchronous motor is 0.15 ohm and the resistance of the transmission mains, etc., is 0.07 ohm, find the

changes in the losses in the above two cases.

5. Establish an expression for the effective E.M.F. developed by a single-phase alternator and show that this depends on the wave shape of the flux and spread of the coils. Deduce the value of the form factor when the flux distribution is sinusoidal.

SECOND HALF

1. (a) A 500 K.V.A. 16 pole 3 phase Alternator runs at 375 R.P.M. and has a flux of 6 megolines. The winding is uniformly distributed and consists of 3 conductors per phase per pole.

Calculate the line voltage and the line current when the alternator

(a) star connected, (b) mesh connected the breadth factor coeff. being

$$\frac{2n'}{n\pi}$$
 sin $\frac{n\pi}{2n'}$.

(b) Explain briefly the principle of any automatic type of regulator for keeping the voltage of an alternator constant under varying loads.

- 2. (a) Give a short description of the different methods adopted for the starting of three-phase induction motors, pointing out the suitability of each method.
- (b) When is a synchronous induction motor to be preferred to that of an ordinary induction type?
- 3. (a) Derive the expressions for the voltage and current ratios of a six-phase rotary converter.
- (b) Discuss a few common methods of starting converters from the alternating current side.
- 4. In a 50 K.V.A. 2,200/220 volt Transformer the full load equivalent reactance drop is 3.1 per cent. and the resistance drop is 1.1 per cent. of the rated terminal voltage on the low tension side. Find the percentage regulation for 0.85 power factor.
- 5. On test, a 500 volt 3 phase 50 cycle induction motor gives the following data:---

At No load— Input—5.35 kw. Current—146 amps.

Blocked rotor-

Input—56.1 kw. Current—802 amps. Impressed volt—250.

Both rotor and stators are star connected and the resistance between the mains is 0.03. ohms.

Draw the circle diagram.

THIRD PAPER

The questions are of equal value

FIRST HALF

Examiners— { Mr. S. K. Acharyya, M.Sc. Dr. B. N. Chuckerbutty. D.Sc.

ANY THREE questions will carry full marks

1. What do you understand by the Mechanical Equivalent of Heat? Describe the method of determining it which you consider the best. Give full reasons for your answer.

If the kinetic energy contained in a ball of iron, having fallen from rest through 21 metres, is sufficient to raise its temperature through 0.5°C. calculate the value for the mechanical equivalent of heat.

$$(g=990 \text{ cm} / \text{ec}^2$$
. Sp. heat of iron=0.1)

- 2. Describe Forbes' method of measuring the thermal conductivity of a bar in absolute measure and give the theory underlying it.
- 3. Summarise various methods of measuring high temperatures and discuss their relative merits. Describe completely one of the recent methods of measuring low temperature.
- 4. What is meant by 'Phase,' 'Components,' and 'Degrees of freedom' of a thermodynamic system? Deduce the equation of the 'Phase Rule' from thermodynamic considerations and illustrate the law by a suitable example.
- 5. State Planck's Law of distribution of energy in the emission of the spectrum of a black body, and show that both Wien's Law and Rayleigh-Jeans' Law are particular cases of it.

In the emission of spectrum of a black body at a temperature of 1727°C., the maximum emission takes place at the wave $\lambda=1.46\mu$ Find the value of Planck's Constant, it being given that

Q=velocity of light= 3×10^{10} cm. per sec. $N = \text{Avogadro number} = 6 \times 10^{23}$.

SECOND HALF

Examiners— { MR. J. M. Bose, M.A., E.Sc. PROF. D. M. Bose, M.A., Ph.D.

Not more than two questions from either group

(GROUP A)

1. Deduce an expression for the mean free path of a system of gas molecules. What properties of a gas depend upon this quantity and how are then interrelated?

2. Write down Maxwell's law of the distribution of velocities in a system of particles at a temperature T. Give an account of the experimental

verifications of this law.

3. Give an account of the different apparatus which can be used to measure the pressure of rarefied gases.

(GROUP B)

4. A thin cylindrical shell is subjected to internal pressure, calculate the principal stresses at any point.

If the end plates are hemispherical and Poisson's ratio equal to '3, prove that the thickness of the plates of the cylindrical and spherical parts should be in the ratio 7:17.

- 5. A beam rests on supports 8 ft. apart and carries a load of 1 ton uniformly distributed. The beam is rectangular in section 3" deep. How wide should it be in order that the skin stress may not exceed 4 tons per square inch?
- 6. Establish Euler's formula for the stability of a column under a vertical load.

A straight steel rod of uniform circular section and five feet long is found to deflect one inch under a central load of 20 lbs. when tested as a beam with simply supported ends. Determine the critical load for the same beam when used as a vertical strut with free ends.

FOURTH PAPER

FIRST HALF

Examiners = { Prof. P. N. Ghosh, M.A., Ph.D., Sc.D., F.Inst. P. Mr. P. Ganguli, B.Sc.

The questions are of equal value

Only THREE questions to be attempted

Candidates are allowed to use steam tables, $T - \phi$ and $H - \phi$ diagrams.

1. The law of the expansion curve of a gas engine indicator diagram is found to be $PV^{r+s} = \text{constant}$. Assuming $c_p \mid c_n = 1.37$, find the rate of

heat reception $\frac{dH}{dv}$

If the law of the compression curve is $PV^{1\cdot 2\cdot 5} = \text{constant}$, what is the rate of heat reception during compression? If the piston sweeps out 600 cubic ft, per minute when the pressure on the expansion curve is 150 lbs. per sq. inch absolute, what is the heat reception at this instant? Prove any formula you use.

2. Sketch a $T-\phi$ and a Mollier chart for steam. Explain with the help of these diagrams, the difference between an adiabatic expansion and throttling.

Steam at 200 pounds per square inch absolute ($t=382^{\circ}\text{F.}$) is superheated 100°F. It is then passed through a reducing valve and has its pressure reduced to 15 pounds per square inch absolute ($t=218^{\circ}\text{F.}$).

Determine with the help of a Mollier chart the temperature and condition of the steam after wire drawing, and calculate without using steam tables, the change of entrophy. Take the average specific heat as 0.5.

3. An engine uses 20 lbs. of dry steam (saturated) per indicated horse power. The boiler pressure is 150lbs, per square inch and the feed temperature is 20"C.

Calculate-

- (i) the thermal efficiency,
- (ii) the Rankine efficiency,

(iii) the efficiency ratio. Prove any formula you use.

4. A four-stroke gas engine has the following dimensions:-

Cylinder-12" in diameter.

Piston stroke—18".

In a trial lasting for an hour the total number of revolutions was found to be 9,000 and the total number of explosions 3,600.

The brake wheel is 6 ft. in diameter and was loaded with 200 lbs. The mean effective pressure was 82 lbs. per sq. inch. Calculate the brake

horse power, the indicated horse power, and the mechanical efficiency.

5. Explain the terms 'Air standard efficiency,' 'Compression ratio,' 'Indicated thermal efficiency,' and 'Relative efficiency' with reference to a heat engine, and show their relations.

The stroke volume of an engine is 1413.7 cubic inchees and the clearance volume is 353 cubic inches, indicated thermal efficiency being 32.5 per cent. Determine the air standard efficiency and the relative efficiency of the engine.

SECOND HALF

PROF. S. K. MITRA, D.Sc. Mr. C. Austin. Examiners-

The figures in the margin indicate full marks

The number of questions attempted should be such that the total marks do not exceed 50

1. Contrast the relative advantages of the resistance capacity, transformer, and tuned-anode methods of amplification. If a resistance R is insered in the plate circuit of a valve, prove that the voltage

magnification μ obtainable from the arrangement is $\frac{\mu \Omega}{1 + \frac{R_v}{R}}$ where μ_{ν} is

the amplification factor of the valve and Rv its A.C. resistance.

Is it possible in practice to make it equal to μ_0 2. (a) Give the theory of the oscillating arc. State briefly the improvements made by Poulsen to overcome its limitations as a generator of H.F. oscillations.

(b) Describe, with neat diagrams, the mode of action of static frequency changers.

3. (a) Discuss the voltage and current distribution in a single wire antenna with reference to the effects of (i) loading coils, (ii) shortening condensers.

(b) An aerial is to be erected in open country suspended from two steel masts. Equal radiation in all directions is required. Draw a sketch showing the form of aerial to be used. Give the reasons for the form shown.

20

10

10

10

20

- 4. Draw a circuit diagram for a superheterodyne receiver indicating on it capacity, inductance, and frequency values, assuming the receiver to be used on 1,000 kilo-cycles. Indicate also where screening would be used.
- 5. (a) An air condenser capacity 0.0005 mfd., to withstand 30,000 volts D.C., is to be built, using 10 square metal plates. Calculate the distance between plates and the area of one side of the plate. S.I.C. for air may be taken as unity. Dielectric strength, 30,000 v., breaks down plates at 2 cms. distance in air. Factor of safety, 6.
- (b) Discuss the losses in a condenser used in a high-frequency circuit with high voltages.

ORGANIC CHEMISTRY

GENERAL PAPER

DR. PRAPHULLAKUMAR BOSE, D.Sc. " MAHENDRANATH GOSWAMI, D.Sc. PROF. P. C. MITTER, M.A., PH.D.

Eraminers—

DR. ANUKULCHANDRA SARKAR, M.A., PH.D.

PROF. H. K. SEN, D.Sc.

MR. RAJENDRANATH SEN, M.A., M.Sc.

DR. B. K. SINGH, M.A., D.Sc.

Attempt SIX questions only

The questions are of equal value

1. Explain clearly the meaning of the term Dynamic Isomerism. What different methods are available for determining the structure of dynamic isomers?

2. Give an account of the methods that may be used for converting benzene derivatives into aliphatic compounds and vice versa.

- 3. Starting from uric acid how would you obtain :--
 - (a) Adenine.

 - (b) Xanthine.
 (c) Caffeine.
 (d) Violuric acid?
- 4. Establish the constitutional formula for citronellal.
- 5. Write notes on:
 - (a) Geometrical inversion.
 - (b) Michael's reaction.
 - (c) Catalytic reduction.
- How are a amino-acids prepared?

Describe the syntheses of (a) ornithine and (b) arginine.

- How are the following substances prepared?-
- (a) Phenylparaconic lactone, (b) resacctophenone, (c) cacodyl oxide. (d) tartrazine, (e) saccharine, (f) metol.
 - 8. Establish the constitutional formula for piperine.

ORGANIC CHEMISTRY—SPECIAL

FIRST PAPER

Attempt FIVE questions only

The questions are of equal value

1. Give a short account of the aliphatic 'diazo' compounds.

- 2. Give a review of the work which has been done to effect asymmetric synthesis. How do you explain the presence of optically active compounds in nature?
- 3. Describe the synthesis of curcumin and isocurcumin. How is the isomerism explained?
- 4. How would you proceed to determine the constitution of a disaccharide?

Establish the constitution of melibiose.

5. Indicate the various stages by which trimethyl succinic acid is obtained from camphor.

How is camphoronic acid synthesised?

- 6. What are the polypeptides? Describe their properties and also their general methods of synthesis.
 - 7. Describe the synthesis of any five of the following:-
 - (a) Cyclopentanone.(b) Orsellinic acid.

 - (c) a and B ionone.
 - (d) Atophan.
 - (e) Chrysin.
 - Phenyl mercuric chloride.

SECOND PAPER

Attempt FIVE questions only

The questions are of equal value

- 1. Illustrate, with typical examples, the use of the following substances in the synthesis of heterocyclic compounds:-

 - (a) Benzamidine.(b) Phenyl hydrazine.
 - (c) O-Amidobenzophenone.
- 2. Give a short account of the more important vat dves with special reference to their methods of preparation and constitution.

3. Establish the constitutional formula of Berberine or Harmaline.

- 4. Give an account of the important synthetic hypnotics. Discuss the relation between their chemical constitution and physico-chemical and physiological properties.
 - 5. Discuss the constitutional formula for catechin.
 - 6. How are the following prepared?-
 - (a) Acetonyl acetone.
 - (b) 1-amino-2-methyl anthraquinone.
 - (c) Acriflavine.
 - (d) Primuline.
 - (e) Phenyl-arsinic acid.

State their uses.

- 7. Write short notes on :--
 - Wagner-Meerwein transformation. (1)

Mutarotation. (2)

(3) Chromo-isomerism.

INORGANIC CHEMISTRY

GENERAL PAPER

DR. P. NIYOGI, M.A., PH.D.

MR. PRIYADARANJAN RAY, M.A.
DR. PULINBIHARI SARKAR, Dr.es.Sc., A.I.C.
,, RAMESCHANDRA RAY, M.A., D.Sc.

The questions are of equal value

Only six questions are to be attempted

- 1. Write an essay on the physical and chemical methods of determining atomic weights of elements, illustrating your answer with examples.
- Write a short historical account of the discovery of the elements of the Zero group of the Periodic table and discuss their position. How is Helium obtained in a state of purity? What are its uses?
 - 3. Write short notes on any three of the following:

(a) Isotopes and isobars.

(b) Isomerism in inorganic compounds.

Thermite Process. (c)

- (d) Radioactive radiations.
- 4. Write a note on the methods of softening purifying and sterilising water for domestic and industrial purposes.
- 5. How are the following substances propared and what are their uses?-
 - (a) Aluminium nitride.
 - **(b)** Potassium persulphate.
 - (c) Titanium Trichloride.
 - (d) Hydroxylamine hydrochloride.
 - (e) Hypophosphorus acid.
- 6. Describe fully the Bismuthate-, persulphate-, and Volhard's methods of determining manganese, giving reasons for your preference for any of these.
- 7. Describe briefly the method employed for the synthesis of ammonia from its constituents, explaining clearly the principles underlying the process.
- Name the important ores of Nickel. How is the metal obtained from them in a state of purity? State the uses of the metal and its alloys.

INORGANIC CHEMISTRY—SPECIAL

FIRST PAPER

The questions are of equal value

Only FIVE questions are to be attempted

1. Write an essay on chemical elements and atoms, noting specially

the modern views regarding them.
2. How would you determine the composition of unstable complexes that are formed in solution only and cannot be obtained in the solid state, and which are in mobile equilibrium with its constituents? How can you predict their proportion at any temperature when known concentrations of the two constituents are mixed?

Illustrate your answers with specific examples.

- Describe the types of isomerism of co-ordination compounds and discuss the occurrence of these with special reference to the methods whereby the isomerism has been demonstrated.
- 4. What are thionic acids? How are they obtained? Discuss their constitution. How would you detect the presence of thiosulphate, sulphite. sulphate, and dithionates in a mixture and separate them from each other?
- 5. Give a short account of the hydrides and halides of silicon and boron, and compare their physical and chemical properties.
- · 6. Discuss the chemical and physical properties of the elements of the sixth group of the periodic table. How would you account for the division of the group into two sub-groups and how is it justified by the chemical properties of their members?
- Name the sources from which the metal gold is obtained. Describe fully the methods employed for the extraction and purification of the metal, exlaining clearly the chemical changes involved.

SECOND PAPER

The questions are of equal value

Only FIVE questions are to be attempted

- 1. Write a short essay on modern developments of methods in analytical chemistry.
- 2. Discuss the position of the rare earth elements in the periodic table. How is this explained in modern views of the structure of the elements? Describe fully two methods which are used in the separation of rare earths from each other.
 - Write short notes on any three of the following:
 - (a) Electro-valency and co-valency.
 - (b) Radioactive indicators.
 - (c) Discovery of Hafnium.
 (d) Active nitrogen.
- 4. One violet and one green isomeric chromic chloride hydrate were discovered by Recours. How did Werner explain their constitution? How was the third green isomeric chloride predicted from physico-chemical experiments by Bjerrum and later on isolated by him? What do you know regarding the mechanism of hydrolysis of these chlorides?

5. How do Niobium and Tantalum occur in nature? What do you know of their chemistry?

How are they separated from one another?

- 6. Two classes of tungstates are known. Give a description of their preparation and chemical behaviour and of the acids derived from them.
- 7. Discuss the equilibrium diagram of the iron-carbon alloys giving a neat sketch of the same. Give an account of the different methods by which the diagram is constructed.

PHYSICAL CHEMISTRY

GENERAL PAPER

MR. NANIGOPAL CHAKRABARTI, M.Sc.
,, KALIKUMAR KUMAR, I.I.Sc.

Examiners—
, ASUTOSH MAITRA, M.A.

PROF. J. N. MUKHERJEE, D.Sc.
DR. JNANENDRACHANDRA GHOSH, D.Sc.

The questions are of equal value

Not more than six questions are to be attempted

Logarithmic tables will be supplied

- 1. (a) Describe, in detail, how you would prepare a standard cadmium cell.
- (b) Describe the reactions that take place during the process of charging and discharging a lead accumulator. How does its E.M.F. depend on the concentration of sulphuric acid?
- 2. (a) By what methods has the ionisation constant of water been determined?

Describe one method in detail.

- (b) Given the specific conductance of water at 18° is 0.038×10.6 mhos and that the ionic conductivities, at infinite dilution of hydrion and hydroxidion are 318 and 174 respectively, calculate the degree of ionisation of water.
 - 3. Write an essay on the theory of indicators.
- 4. Deduce from thermodynamical considerations Kirchoff's equation of isothermal distillation:

$$\frac{\partial \ln \frac{P_0}{P}}{\partial x} = -RT^2 \frac{\partial \ln \frac{P_0}{P}}{\partial T}$$

and show how you can obtain the Duhen and Margule's equation therefrom.

5. Discuss the question of the exact determination of atomic weights by physical methods alone.

What is meant by an 'equation of state'? Discuss the merits of Dieterici's equation of state. Show how to calculate the critical constants from Dieterici's equation, and discuss how the value of RT.

Or.

p.v.

- 6. Write short notes on any three of the following:
 - Solid solutions. (a)
 - (b) Liquid crystals.
 - (c) Iso-electric point.
 (d) Buffer solution
 - Buffer solution. (d)
 - (e) Photo-chemical induction.
- 7. State the laws of photo-chemistry. Give some typical examples of photo-chemical actions and discuss on what basis photo-chemical reactions have been classified.
 - 8. Deduce from thermodynamical considerations the Partition Law.

At 14° the distribution coefficient of iodine between carbon tetrachloride and water is 79. A solution of iodine in tenth-normal potassium iodide was shaken up with carbon tetrachloride. After equilibrium had been attained 1 litre of the carbon tetrachloride phase contained 0.02022 grammolecule of iodine, whereas the same volume of the aqueous phase contained 0.02118 gram-molecule of iodine. Calculate the equilibrium constant of the reaction

 $KI+I_9=KI_3$.

9. How do you prepare the following in the collodial state: gelatine, silicic acid, arsenious sulphide, and ferric hydroxide? Which of these would you class as lyophobic and which as lyophilic colloids? State the properties of the colloidal systems on which you base your classification.

What are the various theories that have been proposed from time to time to explain the origin of the electrical charge on the colloid particle? Which of these theories is, in your opinion, most suitable, and why?

10. Give an historical account of the discovery of Radium. Distinguish between α , β and γ radiations. What is the experimental evidence for identifying the a-ray with helium nuclei?

FIRST PAPER

Not more than FIVE questions are to be attempted

The questions are of equal value

Logarithmic tables will be supplied

- 1. (a) Assuming Maxwell's law of distribution of velocities in an assemblage of gas molecules, deduce expressions for (i) the most probable velocity C, (ii) the mean velocity c, and (iii) the mean of the squares of the velocities o 2 of the molecules when they are at a temperature T.
- (b) Calculate the values of C_{-} , c_{1} and $\sqrt{c^{-2}}$ for H_{-} and O_{-} at $O^{**}C_{-}$ given the following data:-

Molecular weight of Hydrogen Molecular weight of Oxygen ... 8.31×107 ergs/degree. Gas constant R

(c) Obtain an expression for the mean free path of a molecule.

2. Explain carefully the considerations which led Planck to formulate the Quantum Theory, and give a concise account of the use Bohr made of this theory in explaining the hydrogen spectra.

3. Deduce an exact equation relating the osmotic pressure of concentrated solutions with the lowering of vapour pressure. How far does the theoretical equation agree with experimental observations?

- 4. How would you distinguish between a homogeneous and a heterogeneous reaction in a system containing gaseous reactants? Discuss the decomposition of gaseous nitrogen pentoxide and hydrogen iodide in detail.
- Explain, with illustrations, how the Nearnst Heat Theorem can be applied for calculating the affinity of a process from thermal data.
- Write a note on the work of adhesion between (a) two liquid surfaces, and (b) between a solid and a liquid surface.
- Give an account of Donnan's theory of membrane equilibrium and experimental attempts to verify this theory.
 - 8. Write an essay on Photosensitized Chemical Reactions.

Or,

At 0°C it was found that CO, is taken up by charcoal as follows, p being the pressure of gas when equilibrium s established and c being the amount of the gas in the solid :-

What conclusions might be drawn from these results? Discuss the nature of such processes.

SECOND PAPER

Not more than FIVE questions are to be attempted

The questions are of equal value

Logarithmic tables will be supplied

1. The specific conductivity of pure water is 0.0384×10-6 reciprocal ohms at 18°. The velocity of H- and OH' per volt per cm. is 300×10^{-5} , and 170×10^{-5} cm., respectively. Find out the dissociation constant of water; explain the various steps in your process of calculation.

Describe any method for determining the concentration H-ions.

Describe the electro-chemical properties of three typical Oxidation-Reduction Indicators.

Give an account of the electro-chemistry of non-aqueous solutions

with special reference to the work of Walden, Kraus, and Bray. 3. What is the Schulze-Hardy-Linder-Picton rule of valency?

- is the present position of this law in connection with the electrolytic ccagulation of colloids?
- 4. Give an account of the theory of the velocity of ionic reactions with special reference to the work of Brönsted and Soper.
- Discuss Nernst's theory of diffusion in electrolytic solutions and deduce the expression

$$D = \frac{2UV}{U+V}RT$$

Deduce an expression for the diffusion potential.

6. Write an essay on Langmuir, Harkins, and Adams' work on 'surface orientation.'

- 7. Write full explanatory notes on :--
 - (i) Radioactive equilibrium.
 - (ii) The Displacement Laws of Fajans and Soddy.(iii) The Geiger-Nutall Relation.

Describe Millikan's 'oil-drop' method of determining the charge on an electron giving full experimental details. How has the Avogadro Constant N been determined by Millikan?

- 8. Explain fully, with illustrations, the following:
 - (1) Consecutive reactions;
 - (2) Opposing reactions; and
 - (3) Side reactions.

Discuss Wegscheider's Test for side reactions fully and point out its limitations.

A gas under certain conditions is found to polymerize, so that 1 vol. of the original gas yields half that volume of the polymer. In an experiment which was carried out at constant temperature and volume the pressure of the gas fell in 1 hr. to 0.8600 and in 8 hrs. to 0.5359 of its original value. What is the order of the reaction and what deductions can you draw with respect to the mechanism of the polymerization?

APPLIED CHEMISTRY

FIRST PAPER

The questions are of equal value

Only THREE questions should be attempted from EACH half

FIRST HALF

Examiners—

MR. PRIYADARANJAN RAY, M.A.

SIR P. C. RAY, Kt., C.I.E., D.Sc., Ph.D.,

F.C.S.

DR. H. K. SEN, M.A., D.Sc., D.I.C.

DR. PANCHANAN NIYOGI, M.A., Ph.D. MR. N. N. SEN, M.Sc.

- 1. Review all the principal methods for the manufacture of hydrogen gas on a large scale. Describe, in detail, the method you consider suitable for adoption in the suburbs of Calcutta, giving reasons for your choice.
- 2. What are alloys? Classify the different varieties of binary alloys, and give a short account of the methods employed for the construction of their equilibrium diagrams.
- 3. How does platinum occur in nature and how would you separate it from the other allied metals in a state of purity? State the chief industrial uses of the metal and its alloys.
- 4. How are the following substances obtained on a large scale and what are their special properties and uses?-
- (i) Stainless steel; (ii) Permutite; (iii) Calcium cyanamide; (ie) Yellow phosphorus; (v) Potassium cyanide.

THIRD PAPER

(CHEMICAL ENGINEERING)

The questions are of equal value

FIRST HALF

Examiners—

MR. BANKIMCHANDRA RAY, M.Sc.

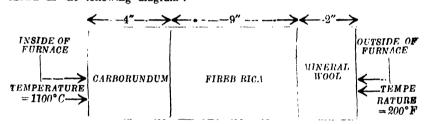
,, MANINDRAKUMAR SEN, M.Sc.

DR. H. K. SEN, M.A., D.Sc., D.I.C.

,, HIRALAL RAY, Dr.Eng. (Charleston).

Answer any THREE questions

- 1. Draw a neat sketch of the Kestner Climbing Film Evaporator and describe, in detail, its method of working, with special reference to its advantages over other types of evaporators.
- 2. A furnace-wall is constructed with thickness and of materials as shown in the following diagram:



Heat oncductivities/sq.ft./hour/foot/°F:-

(a) of Carborundum ... 5.6 B.T.U (b) of Fire-brick ... 1.0 ,, (c) of Mineral wool ... 0.035 ,,

Calculate the heat lost by conduction through one sq. ft. of the wall per hour.

Also find out the temperature at the boundary wall of carborundum and fire-brick.

- 3. Describe, with as much detail as possible, a furnace burning coal on grates, showing the relations between the following:—
 - (i) Grate-area.
 - (ii) Amount of coal burnt per hour.
 - (iii) Amount of air to be introduced per hour.
 - (iv) Volume of the gas combustion chamber.
 - (v) Chimney dimens ons.
- 4. Write a full account of your visit to any one of the following factories:---
 - (i) Cement Factory at Banmor;
 - (ii) Paper Mills at Titagurh.
- 5. Describe, with a neat sketch, the working of a plant for the complete separation of Naphtha tc Benzene, Toluene, etc.

SECOND HALF

Answer any THREE questions

- 1. Discuss the merits of NH., CO., and SO. as working medium in a refrigerating machine.
- 2. A condensing engine with back-pressure 3 lbs./sq. in. works with steam at 45 lbs. by gauge and cut-off at half-stroke. It is proposed to increase the pressure of steam to 75 lbs. by gauge and cut-off at one-fourth stroke. Compare the relative work done and weight of steam consumed in the two cases

 $[\log e^2 = 0.693]$ $\log e^4 = 1.3861$.

- 3. Describe, with details, the construction and working of a Diesel engine, indicating specially its distinction from an Otto-cycle engine.
- Find an expression for the thermal efficiency of an engine which is receiving heat at constant volume and rejecting heat also at constant volume.

Compare the relative merits of a petrol engine and an alcohol engine.

5. Describe, with the help of a neat pencil sketch, the manufacture of finished sized paper from wood.

FOURTH PAPER

(OIL TECHNOLOGY)

Examiners— (Dr. Mahendranath Goswami, M.A., R. L. Datta, D.Sc., N. N. Godbole, M.A., B.Sc., Ph.D.

N.B.—Try any five of the following

1. Write a short essay on our knowledge regarding the characterisation and separation of common fatty acids in non-drying vegetable oils. •

2. What are sulphonated oils? How are they manufactured? State

fully their industrial uses.

3. Describe the manufacture of fatty acids for use in the candle industry, especially with reference to the application of more unsaturated stocks.

What attempts have been made to elucidate the chemical nature of

natural glycerides?

5. Describe the principal methods of the preparation of natural essential oils with typical plants which are commonly used.

6. Describe the general methods available for breaching and deodorising of fatty oils.

- Write notes on any two of the following:—
 - Utilisation of the natural gas of petroleum well.
 Preparation of boiled oil and its application.

(8) Preparation of artificial musk.

FOURTH PAPER

(FERMENTATION)

Examiners— { DR. GILBERT J. FOWLER. ,, S. R. DASGUPTA, Dr.Eng. (Darmsted). ,, H. K. SEN, M.A., D.Sc., D.I.C.

The questions are of equal value

FIRST HALF

Answer only THREE questions

1. State what you know about the following substances:—
(a) Dextrin; (b) Lignin; (c) Pectin; (d) Hippuric acid; (e) Urea;
(f) Furfurol.

2. Write an essay on the world's sources of supply of cane-sugar.

- 3. Give an account of the distinctive characteristics of bacteria, yeasts, and moulds.
- 4. Describe shortly the production by fermentation processes of the following substances:—

Acetone, methane, ethylalcohol, lactic acid.

5. Give some account of the occurrence and properties of the following enzymes:—

Maltase, Oxidase, Zymase, Papain, Trypsin, Invertase.

Describe carefully the separation and detection of any two of them.

- 6. Make careful sketches of two of the following:-
 - (a) A centrifuge (either for works or laboratory).
 - (b) A filter press.
 - (c) A vacuum pan.
 - (d) A drying oven.

SECOND HALF

Answer three questions only

1. What do you know about the influence of phosphates on alcoholic fermentation of sugar?

2. Describe, with details, the manufacture of glycerine from starch, indicating at the same time the reactions involved.

3. Write notes on :-

- (i) Hansen's culture apparatus.
- (ii) Aerobic and anaerobic fermentation.
- (iii) Bacterium Aceto-ethylicum.
- (iv) Koch's pure culture method.
- 4. Write an essay on the biochemical degradation of cellulose. and indicate its commercial possibilities.
 - 5. How do you account for the following?-
 - (a) The presence of fusel oil in fermentation spirit.
 - (b) Formation of formic acid in fermentation.
 - (c) Souring of milk.
 - (d) Vinegar from dilute sugar solution on long keeping.

BOTANY

(New Course)

FIRST PAPER

Answer any THREE questions from EACH half
Illustrate your answers by suitable sketches wherever necessary

FIRST HALF

Examiner-Mr. Kalipada Biswas, M.Sc.

The questions are of equal value

1. Describe the life-history of any one of the members of any twogenera of freshwater Rhodophycea commonly found in this country.

2. What do you know about the morphology and the life-history of aërophilous Green-algæ commonly found in and about Calcutta? Write short notes on their occurrence and distribution.

3. Classify representative members of Blue-green algo which are characterised by true and pseudo-branching. Give a short account of their sub-

4. Trace the origin of sporophyte in Chlorophyceæ, What do you consider the link between Green-algæ and Mossess Discuss the question briefly.

5. Discuss the relationship of the lower and higher forms of Hepatica. Give a short outline of the evolution of alternation of generation in Bryophyta.

SECOND HALF

Examiner—Dr. Sahayram Bose, M.A., Ph.D. The figures in the margin indicate full marks

1. What do you know of Virus-disease in plants? How would you	
combat the disease?	16
2. What is the Silver-leaf disease? To what is this usually due?	
What is the primary cause of 'silvering' of leaves in affected plants?	18
3. What is the modern system of classification of Basidiomycetes?	16
What are the chief distinguishing characters of the main subdivisions?	
What are Aphyllophorales?	
4. Write all you know about the 'Pink-disease' of tropical plants.	
Where is it usually prevalent?	16
5. Discuss the phylogeny of the Rusts. What have you learnt	18
from Cragie's recent work on Pycniospores?	

SECOND PAPER FIRST HALF

Examiner-Mr. GIRIJAPRASANNA MAJUMDAR, M.Sc.

The questions are of equal value THREE questions are to be attempted

Write a short essay on the past history of Ferns.
 Discuss the morphological nature of the rhizophores.

3. If the Pteridophytes be arranged according to the complexity of the appendages and specially to their spore-producing parts, the Lycopodiales will come first. Justify.

4. If Isoches be removed from the Lycopodineæ, with what group of

vascular cryptogams shall it be associated, and why?

5. The vascular structure of the mature shoot of the Lycopodiales is referable in origin, in almost all cases, to the nonmedullated monostele. Justify.

Or.

Discuss the nature of the stele of Equisetum.

SECOND HALF

Examiner—Dr. B. SAHANI, D.Sc.

The questions are of equal value

Attempt only FIVE questions

1. Describe briefly those genera of the Bennettitales which are found in India. Give an account of the distribution of the whole group in Time and Space.

2. Discuss briefly the ancestry of the conifers. Name all the genera of conifers found wild in India and say what you know of their occurrence.

3. Describe, in some detail, the life-history of any one member of the Cycadales. Name all the Indian cycads known to you.

4. Give a brief account of the reproductive organs of those genera of the Gnetales which belong to the Indian flora. Describe the occurrence of these genera in India.

5. Write a short account of anomalous secondary growth in Gymnos-

perms, living and extinct.

6. Give a comparative account of the morphology of the megastrobilus in the conifers, and record any phylogenetic conclusions to which the facts

may appear to lead.
7. Give the distinguishing characters of the following genera and draw attention to any points of special interest concerning their structure, distribution, or affinities:—

Medullosa, Welwitschia (=Tumboa), Phyllocladus Lagenostoma,

Cycadeoidea.

Assign each of the genera to its systematic position.

THIRD PAPER

The questions are of equal value

Attempt only THREE questions from BACH half

FIRST HALF

Examiner-Mr. P. K. Parija, M.A., I.E.S.

1. Discuss the influence of external stimuli on the origin, form, and disposition of plant organs.

2. Describe the adaptation of roots to special functions, and the con-

sequent changes of structure and form.

3. Discuss the phyllode theory of the monocotyledonous leaf. 4. Give a detailed description of the healing of wounds in plants.

5. Discuss the occurrence, cause, and significance of Anisophylly in Angiosperms.

Or.

Discuss the morphological value of arrested organs.

6. Discuss the principles underlying the distribution of mechanical tissues in plants.

SECOND HALF

Examiner-Prof. S. P. AGHARKAR, M.A., Ph.D., F.L.S.

Illustrate your answer by neat sketches wherever necessary

1. Give a general account of the systems of classification from Linnaeus to Hutchinson, pointing out clearly their differences and the causes to which they are due.

2. Give a general account of the Families included in the Pandanales by Engler, specially mentioning the characters which justify their position at the beginning of the Monocotyledons. Mention some Indian examples belonging to these and give their geographical distribution.

3. Describe the general characters of the Ranales as defined by Engler, pointing out the importance of the group in the phylogeny of the Monocotyle-dons. Enumerate any two important Families belonging to the group and give the geographical distribution of some Indian species belonging to these.

4. Give a general account of the Cucurb tacem, mention the characters on which the subdivisions of this Family are based, and discuss its systematic position. Mention some economic and medicinal plants belonging to it and give their geographical distribution.

5. Write a short essay on 'Plant Associations.'

FOURTH PAPER

FIRST HALF

Examiner—Prof. S. C. Mahalanobis, B.Sc., F.R.S.E.

Answer only THREE questions

The questions are of equal value

Describe the process of photosynthesis in lower plants.

Discuss the rôle of tracheids in the transport of water. Describe the various stages of vivipary and discuss their physiologi-

cal significance.

4. Illustrate the use of (a) inflexibility, (b) inextensibility, and (c) incompressibility, for the maintenance of requisite strength of the plant-body.

SECOND HALF

Examiner-Mr. Surendrachandra Banerji, M.A., B.Sc., F.L.S.

The questions are of equal value

Answer only Two questions

What are endophytes? Describe the life-history of a typical species. 2. Describe the morphological adaptations of a tropical desert, with special reference to epigous organs of absorption.

3. Give a brief account of micro-phyto-plankton, with special reference to its product of assimilation and its bearing on the life of marine animals.

4. What are hydrophytes? Give a classification of them according to growth-forms.

FIFTH PAPER

FIRST HALF

Examiner-Prof. S. P. AGHARKAR, M.A., Ph.D., F.L.S.

The figures in the margin indicate full marks

1. Write a short essay on 'variations and the importance ascribed to them in the theories of evolution.'

Discuss the inheritance of acquired characters and their im-

20

portance for the production of new species of plants.

2. Give a short account of either 'Weissmann's theory of germinal selection' or 'Wagner's theory of geographical isolation' as a means for the production of new species of plants.

SECOND HALF

Examiner-Mr. ILABANTA BANERJEE, M.Sc.

The questions are of equal value

1. Write a short essay on the fiber plants of India refer them to their families, mention the parts of India where they are grown, and describe the method of the extraction of fiber from any one of them.

2. Give a five years' programme of the work you will undertake when called upon to produce an improved strain of paddy or jute suitable to a particular tract.

Or

Write a short essay on interspecific hybridisation in plants, give examples, and indicate the morphological and cytological characters of the hybrids.

3. Give an account of the present state of our knowledge regarding

the determination of sex in higher plants.

Write short notes on: (i) Linkage, (ii) Polyploidy, (iii) Iri-hybrid ratio, (ii) Parasynapsis, (v) Mutation, (vi) Allelomorphs, (vii) Non-disjunction and (viii) Genotypes.

(OLD COURSE)

FIRST PAPER

FIRST HALF

Examiner-Mr. S. C. Banerji, M.A., B.Sc., F.G.S.

The questions are of equal value
Answer only TWO questions

1. Give the characters of Malvales and discuss the affinities of Malvaceæ, Sterouliaceæ, and Tiliaceæ.

2. What are the differentiating characters of Apocynacea and Asclepiadaceae? How is the latter subdivided into its genera?

3. Give reasons to include Papilionacew. Cæsalpineæ. and

Mimosiæ under Leguminosæ.

4. Give the ordinal characters of Rhizophorese.

SECOND HALF

Examiner-Prof. S. P. AGHARKAR, M.A., Ph.D., F.L.S.

The questions are of equal value

Illustrate your answer by neat sketches wherever necessary

1. What is siphonogamy? Explain the views held regarding its origin from the mode of fertilisation in Gynnosperms.

2. Give an account of the inflorescences, flowers, and fruits of either

Urticales or Parietales, illustrating your answer by Indian examples.

3. Describe the vegetation of typical freshwater jheel from Bengal.

Or,

Describe the main features of the vegetation of the lower Gangetic plain.

SECOND PAPER

FIRST HALF

Examiner—Mr. ILABANTA BANERJEE, M.Sc.

The questions are of equal value

1. Give an account of the morphological characters, the mode of reproduction, and the classification of the Œdogoniaceæ.

Characterise the main divisions of the Cyanophyceæ.

Give an account of our present-day knowledge of the cytology of the Basidiomycetes.

Or, Give an outline of the classification of the Gasteromycetales, and describe the characters of the different families.

3. Give an account of the various factors that are responsible for disease resistance in plants. What are the advantages of immunity?

Or, Describe the symptoms of 'late blight' of Potato on all parts of the host attacked. Give an account of the morphological characters of the fungus, and suggest control measures.

SECOND HALF

Examiner-Mr. GIRIJAPRASANNA MAJUMDAR, M.Sc.

The questions are of equal value THREE questions are to be attempted

1. Trace the gradual evolution of leafy gametophyte in the Bryophytes.

Describe the life-history of Anthoceros, pointing out clearly 'the remarkable association of a primitive type of gametophyte with a highly developed sporophyte.'

2. If the Pteridophytes be arranged according to the complexity of the appendages and specially to their spore-producing parts the Lycopodiales will come first. Justify.

3. If Isoetes be removed from the Lycopodineæ, with what group of

Vascular Cryptogams shall it be associated, and why?

4. The vascular structure of the mature shoot of the Lycopodiales is referable in origin, in almost all cases, to the non-medulated monostele. Justify.

Discuss the nature of the stele of Equisetum.

THIRD PAPER

The questions are of equal value Attempt only THREE questions from EACH half

FIRST HALF

Examiner-MR. P. K. PARIJA, M.A., I.E.S.

Write an essay on the sources of energy for the plant.
 How would you explain the existence of polarity in plants?
 Discuss the reversibility of enzyme reaction.

Or.Classify movements of plants, pointing out the cause and significance of each class.

4. Discuss the effect of running water on the form and structure of

plants.

Discuss the factors governing the form and structure of epiphytes.

Write an essay on the relation of micro-organisms of the soil and plant growth.

SECOND HALF

Examiner—Prof S. C. Mahalanobis, B.Sc., F.R.S.E.

1. Discuss the phylogeny of the vascular bundle.

2. Describe experimental evidences to substantiate the fact that paternal and maternal chromosomes become segregated in microspores and megaspores.

3. Describe the minute structure of typical Coal Measure fossils.

4. Give an account of the mode of termination of the ultimate ramifications of the vascular bundle system.

FOURTH PAPER

(GROUP A)

Illustrate your answers by neat sketches wherever necessary. Answer any THREE questions from FACH half

FIRST HALF

Examiner—Prof. S. P. AGHARKAR, M.A., Ph.D., F.L.S.

The questions are of equal value

1. Discuss the morphology of the climbing organs of the Angiosperme, illustrating your answer by Indian examples.

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- 2. What is a placenta? Illustrate your answer by reference to the placentation in Loranthaceæ, Papaveraceæ, Cucurbitaceæ, and Caryophylla-
- 3. Give a short account of the typical structure of the flower of the Orchidacee and indicate its principal variations. What features in the organisation of the flower justify the view that this family is the most highly

advanced among the Monocotyledons?

4. Describe the range of floral structure in the Malvales, mentioning the principal families included in it and giving the geographical distribution

of the most important economic plants belonging to them.

5. Give a general account of the climatic and edaphic factors affecting vegetation, illustrating your answer by examples, showing the effect produced by them on the internal anatomy of plants.

SECOND HALF

Examiner-Dr. Sahayram Bose, M.A., Ph.D.

The figures in the margin indicate full marks

- 1. Which of the two groups of Ferns (Leptosporangiates and 18 Eusporangiates) do you consider to be primitive? State clearly your reasons. Do Osmunaaceæ shew evidence of retrogression or progression? What evidence do you get from the anatomy of their growing tips?
- 2. Classify the Bryophyta, adding brief notes on the character-16 istic features of the more important families.
- 3. Describe fully the recent work on the water-conducting system 18 in Polytrichum. How does it help to explain the relationship of the Moss with the Algae?

4. Give a critical account of sexuality in Fungi, with special

reference to the Basidiomycetes.

5. What is the Silver-leaf disease? To what is this usually due? What is the primary cause of 'silvering' of leaves in affected 18 plants?

FOURTH PAPER

(Group B)

Examiner-Prof. S. C. Mahalanobis, B.Sc., F.R.S.E.

Answer only three questions from each half

The questions are of equal value

FIRST HALF

- 1. Describe a method of determining the influence of varying tempe-
- ratures on the respiration of plants.

 2. Describe the mode of formation and function of tyloses.

 3. Discuss the theory of gravitational sense organs in plants.
- 4. Give an account of the movements of the plasmodia of myxomycetes under the influence of various stimuli. Explain their physiological significance.

SECOND HALF

 Describe fully the stages in the development of sieve tubes.
 Trace the development of a fern sporangium, showing the successive stages leading to the formation of spores.

3. Describe the histology of the digestive glands of insectivorous plants.

4. Give a detailed account of the origin of the cambium from a primary. procambial cylinder.

PHYSIOLOGY

FIRST PAPER

MR. PARIMALBIKAS SEN, M.Sc. Examiners—

| Dr. U. N. Brahmachari, M.A., M.D., Ph.D.,
| Rai Bahadur.
| Mr. Nibaranchandra Bhattacharyya, M.A.,
| B.Sc.

The questions are of equal value

Not more than FOUR questions are to be answered, out of which No. 5 must be one

1. Give an account of the part played by Carotid Sinus in the regulation of circulation.

2. Write an essay on the Chemistry of Muscular Contraction.

- Discuss the development of different varieties of white blood corpuscles.
 - 4. Write notes on any three of the following: --

(a) Peroxidase.

(b) Donnan Membrane Equilibrium.

(c) Artificial Parthenogenesis.

(d) Bio-luminescence.

5. Discuss the chemical basis of specific immunological reactions.

SECOND PAPER

Examiners— { Mr. Saurindramohan Banerjes, M.B., M.Sc. Sir Nilratan Sircar, Kt., M.A., M.D., I.I..D. D.C.I..

[Dr. Bijalibihari Sarkar, D.Sc., F.R.S.E.

The questions are of equal value

Only FOUR questions are to be attempted

1. Describe, in detail, the peripheral (both afferent and efferent) and central mechanisms which enable an animal to maintain its posture and equilibrium.

2. Discuss critically the proofs that have been adduced as regards the presence or absence of a third substance in a nerve-muscle junction.

3. Describe, in detail, the extra-pyramidal motor tracts in the spinal

cord, their modes of origin and termination.

What do you know of the functions of these motor tracts?

4. Give a detailed account of the various changes that take place in a nerve during and after the passage of a nerve impulse along it.

5. What are the recent views regarding the intimate nature of muscular contraction?

THIRD PAPER

Examiners— { Lt.-Col. A. C. MaoGilchrist, M.A., D.Sc., M.D., F.R.C.P. PROF. S. C. Mahalanobis, B.Sc., F.R.S.E. Mr. Narendramohan Bose, M.Sc.

The questions are of equal value

Answer only FIVE questions

1. Discuss the functions of the labyrinth with special reference to the mechanism of postural reflexes.

2. Give an account of the laws of color-mixing. Describe and discuss

any method of graphical representation of the results of color-mixing.

3 Discuss the efficiency of the various sense-organs, stating briefly the recent researches of Adrian on this subject.

4. Discuss the laws of Johannes Müller, Weber, and Fechner on the relationship between stimuli and sensations, and examine critically the assumption on which Fechner's law is based.

5. Discuss the changes that occur in the retina during activity.6. What is the nerve supply of the Dilator Pupillæ muscle? Trace the course of the nerve impulse from nerve-centre to muscle.

FOURTH PAPER

Examiners—

{ Mr. Satyendraprosad Niyogi, M.B. Mr. Nibaranchandra Bhattacharyya, M.A., B.Sc. Rai Satischandra Banerjee, Bahadur. The questions are of equal value Only THREE questions are to be attempted

1. Give a detailed account of the katabolism of fatty acids in the animal body and state how far the process can be explained by the experimental investigations of Knoop and Embden.

2. Give an account of the various factors that influence the endogenous

uric acid excretion.

3. What is indole? How is it related to trytophane, skatole, indoxyl, and urinary indican? Give an account of the evidence upon which the chemical relationships are based, and discuss their physiological significance.

4. Describe the relationship of the proteins to growth and maintenance

of life.

ANTHROPOLOGY

FIRST PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Anathnath Chatterjee, M.B.B.S.

Answer ANY THREE

1. Give the classification of the Primates and state, in detail, the skeletal features that are characteristic of the Hominida.

2. Discuss the homology of the bones of the upper and lower extremities in man.

3. Describe the distribution of hair on the human body and account, if possible, for any peculiarities that you know of.

4. Discuss the structural changes that have taken place in the deve-

lopment of the human cranium.

5. Give an account of the fossil simians, with special reference to those found in the Siwalik deposits in India.

SECOND HALF

Examiner—DR. B. S. GUHA, M.A., PH.D.

Answer ANY THREE

Describe the characters of the Piltdown man.
 Give your view on the place of origin of the Neanderthal race and

on the migrations of the race that subsequently took place.

3. Describe the main characters of the different human types inhabiting Europe during the Upper Palæolithic period, and give an account of the various routes of their migrations.

4. Describe the characters of the modern human mandible including the teeth, and compare them with those of Neanderthal man and of any fossil

simian.

- 5. Write short notes on:-
 - (1) The Pekin man.
 - (2) Pithecanthropus erectus.
 - (3) Homo rhodesiensis.
 - (4) Propliopithecus haeckelii.

SECOND PAPER

The questions are of equal value

FIRST HALF

Examiner—RAI BAHADUR L. K. A. IYER. B.A., L.T.

Answer ANY THREE questions

1. Discuss the problem of the differentiation of mankind.

2. Give an account of the racial types of man found in New Guinea.

3. Mention some of the striking effects of environment upon the life

of (a) the Eskimo, (b) the Pueblo Indians.

4. Give a brief sketch of the racial history of Indonesia or Asia Minor.

5. Describe the geographical distribution and varieties of megalithic monuments in India, and consider their relation to the ethnic problem.

SECOND HALF

Examiner-DR. J. H. HUTTON, M.A., D.Sc., I.C.S.

Answer ANY THREE questions

- 1. Summarize briefly the contribution to anthropology of any four of the following writers, indicating their approximate dates:-Lucretius, Tyson, Blumenbach, Camper, Retzius, Grattan, Broca, Tyler, Morgan and Rivers.
- 2. Give some account of the oceanic ulotrichous races. How do you account for their geographical location in relation to other ulotrichi? To what extent do you regard this stock as represented in India?
- 3. Examine, in the light of specific examples, the following statement: -
 - Language is an aid to the historian, not to the ethnologist."
- I. Deniker observes that the distribution of different cranial forms on the surface of the earth presents a certain regularity. Amplify this state-
- 5. 'The anthropologist,' says Deniker, 'tries to determine by the anthropological analysis of each of the ethnic groups of the races which constitute it.' Apply this analysis to any three of the following: Andamanese, Toda, Ainu, Malagasy, Basque, Telegu, Bengali.

THIRD PAPER

FIRST HALF

Examiner-DR. P. MITRA, M.A., Ph.D., F.R.A.I.

The questions are of equal value

Only THREE questions are to be attempted

1. What are the criteria for distinguishing and classifying Palæolithic cultures? How could Indian Palæoliths be classified by comparisons of technique.

2. How did the art of Old Stone Age develop and what are its best examples?

- 3. What are the probable sources of origin of the elements of civilisation associated with Neolithic culture? 1. Write short notes on any three of the following:-
 - Dolmen, Robenhausen, Hallstatt, Bandkeramik, Kjoekkenmodding. Give a brief sketch of the Indus Valley culture, bringing out its

relationship with other cultures of the Near East.

SECOND HALF

Examiner-Dr. B. S. Guha, M.A., Ph.D.

The questions are of equal value

Answer ANY FOUR of the following questions

1. What are the various forms of Agriculture? How far did the artificial control of supply of water and domestication of animals help in the development of Agriculture?

- 2. What is the origin of Dress? Was it due to Modesty, Protection, or Decoration? Describe the part played by each in the evolution of Dress.

 3. What part has Transport played in the development of culture? Describe the means of Transport used by the people living in the Arctic
- 4. Describe the various types of boats and canoes used by the people in Oceania. What is meant by the outrigger canoe and how is it distributed?
- 5. Discuss the various theories of the origin of Art. How far is it possible to correlate the material and socio-religious sides of life with the evolution of Art?

FOURTH PAPER

FIRST HALF

Examiner—RAI BAHADUR S. C. RAY, M.A., B.L.

The figures in the margin indicate full marks.

1. Describe, with examples, the various forms which social 22 grouping has taken among the peoples of India and the nature and functions of each of those groups.

2. Write short notes on the different theories of the origin of

Marriage, giving your own views supported by your reasons.

Or.

Discuss the correctness of the proposition that 'Mother-right preceded Father-right.'

3. Give an account of the origin and development of ideas of Property. Or.

Discuss the relative importance of the various factors that may have contributed to the development of the caste system in India.

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SECOND HALF

Examiner—Mr. Tarakchandra Das. M.A.

The questions are of equal value

Answer ANY THREE of the following questions

1. Describe the essential beliefs on which totemism rests. Give examples from India and Australia.

2. Describe the ideas of primitive man about 'soul.' How did he arrive at this concept? Illustrate your answer.

3. Discuss the relationship of magic with religion. Illustrate.

- 4. Analyse the religious beliefs and practices of any primitive tribe you know of and show how they influence the life and activities of its individual members.
- 5. Write a note on the method of the disposal of the dead among the Nagas.

(GROUP A)

FIFTH PAPER

The questions are of equal value

FIRST HALF

Examiner-RAI BAHADUR L. T. A. IYER, B.A., L.T.

Answer ANY THREE questions

1. Write a short note on 'Natural Selection' as a factor in evolution.

Write an essay on the physical basis of heredity.
What are the human traits which are believed to be inherited in 3.

simple Mendelian manner?

'Eugenics is a panacea that will cure human ills; it is rather s dangerous sword that may turn its edge against those who rely on its strength.

Discuss this statement with illustrations.

Write a dissertation on the contribution of Darwin and Weismann to the theory of evolution.

SECOND HALF

Examiner—Sir Nilratan Sarkar, Kt., M.A., M.D., LL.D., D.C.L.

Answer ANY TWO questions

1. What is meant by 'race'? Describe some of the conditions which lead to (1) race-degeneration, and (2) race-extermination. How can they be prevented?

2. Write a dissertation on the influence of environment on racial

character with illustrations.

'Isolation has been the great factor or at any rate an essential factor in the differentiation of races: while mingling and merging have clearly resulted in the production of many new races.' Give instances in support of this statement.

4. Trace the main steps through which intelligence has been built up

in the process of evolution.

(GROUP A)

SIXTH PAPER

Examiner MR. TARAKCHANDRA RAYCHAUDHURI, MA. MR. P. C. MAHALANOBIS, B.Sc.

The questions are of equal value

Only FIVE questions to be attempted

1 What racial elements have entered in the composition of the moders population of Chinese Turkestan?

2. Distinguish between the different branches of the Mongolian stock. Where would you locate the cradle land of the Mongol? Discuss the question.

3. 'Peoples of the Caucasic division had already spread to the utmost confines of south-east Asia in remote prehistoric times.' Discuss.

4. What othnic elements have entered in the Naga country? Draw a map to show the location of the different members of the Naga tribe.

5. Discuss the question of the existence of a Negrito substratum in the

Indian population.

- 6. Write a note on the different methods of measuring cranial capacity,
 7. You are asked to collect anthropometric measurements of three Indian castes. Discuss what size of sample you would choose and explain briefly how you would analyse the data?
- 8. Write notes on any three of the following: (a) mode, (b) significance of the differences in average values, (c) skew distributions, (d) facial angle (according to the Frankfort Agreement), (e) squatting facet.

(Group B)

FIFTH PAPER

The questions are of equal value

FIRST HALF

Examiner—Dr. P. MITRA, M.A., PH.D.

Only three questions are to be attempted

1. What are the economic and biological factors to be taken into consideration in the study of a primitive group?

2. Distinguish clearly between the following words with examples: community, sib, clan, gens, and tribe. How do tribes grow and decay? Illustrate from Indian examples.

3. Write a note on Khasi matriarchy. How does it differ from that

obtaining in Malabar?

4. Discuss with Indian examples the phenomenon of dual division in primitive communities.

5. How far does the geographical method and culture area concept help in the study of social origins?

SECOND HALF

Examiner-Mr. K. P. Chatterjee, M.A.

Attempt only THREE questions

1. Define (i) group marriage, (ii) sexual communism, (iii) polyandry. Give examples. How would you classify the (a) tali ketu kalyanan and (b) sambhandham union of the Nayars? State the facts in support of your views, in some detail.

2. Discuss the relative importance of the (a) sexual and (b) economic

factor in the origin of any two of the following:

(i) Polygyny, (ii) levirate, (iii) sororate, (iv) cross-cousin marriage.

and (v) polyandry of the non-fraternal type. Illustrate your arguments.

3. Discuss whether Rivers' hypothesis of a Melanesian gerontocracy requires to be modified in view of the recent discovery of Ambrym class systems. Illustrate your arguments. Or.

The existence of certain kinship terms and practices, among some of the Chotanagpore tribes, similar to terms and usages found in Pentecost Islands in Melanesia, have led some investigators to formulate the view that the earlier social organisation of these tribes was like that of Pentecost. Write a short essay on the above subject, incorporating the more important data available, and indicating your own conclusions.

Describe and discuss the rules of inheritance and succession among

Nagas.

(Group B)

SIXTH PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Tarakchandra Das. M.A.

Answer ANY THREE of the following questions

1. Describe, in detail, the Angami system of social organisation. What

traces of dual organisation are found among the Naga tribes of Assam?

2. Trace the origin and distribution of head-hunting in Assam, and the surrounding tracts with special reference to the Nagas. What part does it play in the life of the individual and the community?

3. What similar traits of culture occur among the Nagas and some of the other tribes of Assam, Burma, and the Indian Archipelago? How do

you account for this similarity?

4. Give a comparative estimate of the beliefs of the different Naga tribes of Assam regarding the origin of the Earth and man.

5. Write an essay on the material culture of the Lhota Nagas.

SECOND HALF

Examiner-Mr. J. P. Mills, M.A., I.C.S.

Answer ANY THREE

1. Compare the Ao and Sema Naga systems of village government.

2. Give an account of the Lhota Naga ceremony of oyantsoa.

3. Discuss the effects of the impact of alien culture on the Ao Nagas.

4. Discuss fully the use of stone by the Angami Nagas, with special

reference to ceremonial use.

5. What do you know of (1) Oha, (2) the system of chieftainship among the Sema Nagas, (3) Angami dress and ornaments, (4) the Ao belief in an after-life, (5) Lihota Naga feasts of merit.

ZOOLOGY

FIRST PAPER

FIRST HALF

Examiners— {DR. BAINI PRASAD, D.Sc. MR. D. MUKHERJEE, M.Sc.

The questions are of equal value

Not more than THREE questions should be attempted

1. Write an historical account of the development and present position of the Cell Theory.

2. What are the characteristics of the Deep-sea Animals?

- 3. What are your views in reference to the Inheritance of Acquired Characters?
 - 4. Write a short account of the various types of Mimicry.
 - 5. Write short notes on any five of the following:-
- (a) Pterodactyl, (b) Nummulites, (c) Wallace's Line, (d) Protohippus, (e) Convergence in Evolution, (f) Pædogenesis, (g) Palæarctic Region.

SECOND HALF

Examiners - {DR. H. N. RAY, PH.D. DR. B. K. DAS, D.Sc.

Illustrate your answers by diagrams wherever necessary

Write an essay on one of the following subjects:-

(1) The influence of Mendel's discovery on the Evolution Theory.

(2) Protective Coloration and Mimicry.

- (3) Coral Ree's and Atolls.
- (4) Animal Associations.

SECOND PAPER

FIRST HALF

Examiners— {DR. EKENDRANATH GHOSH, M.B. MR. D. MUKHERJEE, M.Sc.

The questions are of equal value
Only Two questions to be attempted

 Discuss the full significance of Meiosis. How does it differ from Mitosis?

2. State what you know of 'sex-limited character?' Discuss its bearing: on Mendelism.

3. Discuss the various views on Golgi bodies.

4. Describe fully the phenomenon of 'the crossing over of the Genes.'

SECOND HALF

Examiners— {Prof. George Mathai, S.C. (Punjab). Dr. H. K. Mookerjee, D.Sc.

Attempt ANY THREE questions

The questions are of equal value

Illustrate your answers with diagrams

 Discuss the development of placenta in mammalia.
 Trace briefly the evolutionary history of the formation of the heart and its great vessels in the vertebrate series.

3. Give a brief account of the development of the vertebral column of

any Amphibian.

4. Describe, in detail, the appearance during development of asymmetry

in Amphioxus.

5. Give a comparative account of the formation of the germ-layers in Frog. Chick, and Rabbit.

THIRD PAPER

FIRST HALF

Examiners— { RAI BAHADUR DR. G. C. CHATTERJEE, M.B. DR. H. N. RAY, PH.D.

The questions are of equal value

Answer ANY THREE

Illustrate your answers with diagrams

- 1. Describe the distribution and mode of formation of the different types of spicules in the Sponges.
 - 2. Give a comparative account of the sensory organs in the Coelenterata. 3. Give a comprehensive account of the structural modifications in the

flat-worms brought about by the parasitic mode of life.

4. Describe, in detail, the life-cycle of any Sporozoa you know.
5. What is trypanosomiasis? Give the life-cycle of Trypanosoma lewisi.

SECOND HALF

Examiners— {DR. KARM NARAYAN BAHL, D.Sc., D.PHIL. MR. D. MUKHERJEE, M.Sc.

The questions are of equal value Not more than Two questions to be attempted

1. What is the distinction between Nephridia and Colomoducts? Give an account of the chief modifications of these organs in the Annelida.

SECOND PAPER

Examiners— { MR. SARATLAL BISWAS, M.Sc. PROF. K. K. MATHUR.

The figures in the margin indicate full marks

Try THREE questions from Part A and THREE from Part B

PART A

PART A	
1. Give an account of the relation between the optical characters	16
of a crystal and its symmetry. 2. Describe the chemical and physical properties and the modes	18
of occurrence of the following minerals: Clino-enstatite, leucoxene, cancrinite, barkevikite, tridymite,	
and topaz.	
3. Describe special tests for distinguishing between the following minerals in microscopic sections:—	16
 (a) Sericite and talc. (b) Calcite and dolomite. (c) Felspar and nepheline in a microcrystalline groundmass. 	
4. Give a summarised account of the modern conception of	16
crystal structure and establish the law of rationality of indices from it. 5. Discuss the various theories propounded to explain the constitutional formulas of Albite and Anorthite as the end members of a typical reomorphous series.	16
PART B	
6. Give an account of the nature and origin of the various types of clay and clay-rooks found in nature.	16

7. Explain the various modes of occurrence of calcium carbonate in nature and indicate their modes of origin wherever possible.

8. Give an account of the rocks which contain felspathoids as major constituents.

16

18

9. Is it possible for an igneous rock to contain quartz along with

olivine or a felspathoid? Give reasons for your answer.

10. Write notes on the following rock types:—

Ankaramite, allivalite, calciphyre, adamellite, monchiquite, and kodurite.

THIRD PAPER

Examiners -- { Mr. Hemchandra Dasgupta, M.A., F.G.S. ,, G. N. Wadia.

The questions are of equal value

N.B.—FIVE questions are to be attempted, at least TWO being selected from BACH group.

GROUP A

1. It has been suggested that the limit of the older Palæozoic rocks should be drawn at the base of the Silurian and not at the base of the

Devonian. Criticise this opinion and describe the older Palæozoic rocks of the Himalayan region.

2. Give an account of the recent works that have been done in connec-

tion with the pre-Tertiary rocks of the Simla region.

- 3. Give an account of the basic igneous intrusives occurring in different parts of India and the economic mineral deposits, ores, etc., associated with them.
- Write a systematic account of the geology of any area you have personally visited and worked in.

GROCE B

5. Give the distinctive characters of Permian and Triassic ammonites and state in what parts of India fossil ammonites are utilised for zoning purposes. Give lists of the zones.

6. (a) Give an account of the Psilophytales.(b) Discuss the position of the Pteridosperms in the plant kingdom

and their relation to the Filicales.

7. Give an account of the geological history of the reptiles and illustrate your answer with special reference to the Indian Empire.

8. Write notes on the following and state what you know regarding their occurrence in India:-

Acanthoceras, Amusium, Bellerophon, Cardita, Danceopsis, Estheria, Juvavites, Oxyrhina, Samaropsis, and Titanosaurus.

FOURTH PAPEL

GROUP A

Examiners— { Mr. Hemchandra Dasgupta, M.A., F.G.S. ,, G. N. Wadia.

FOSSIL MAMMALS

The questions are of equal value Any five questions out of these carry full marks

1. Write a note on the recent discoveries of fossil Man in various parts of the world.

2. Explain, with sketches, the evolution of the mammalian molar

tooth, describing the different intermediate stages.

3. What are the intrortant Carnivora genera found in the Siwalik

deposits of India?

4. Give the stratigraphic position of the following mammals and their range in time, noting the systematic position of each genus :-

Chalicotherium; Machaerodus, Merychippus; Merycopotamus; Dryopithecus; Dorcatherium; Potamochoerus; Telmatodon; Leptobos; and Megatherium.

5. Describe the features by which you would distinguish between the vertebræ of the different regions of a mammalian vertebral column. State how you would distinguish between the following limb-bones of a mammal:-

Humerus, femur, and ulna. 6. Give an account of the Mesozoic mammalian life and point out the peculiarities of the animals regarding their dentition. State all that you know about their occurrence.

7. Give an account of the Karnul cave fauna and discuss how you

would fix its age.

GROUP B

Examiners— { Mr. Nirmalnath Chatterjee, M.Sc. Dr. G. de P. Cotter.

COAL

The figures in the margin indicate full marks

Only six questions to be attempted

1. Under what conditions were coal seams of Gondwana and Tertiary age laid down in India? What are the typical fossils of the	16
Damudas and the Panchets?	
2. Discuss the manufacture of fuel oil from coal, stating what	17
type of coal is most suitable for this purpose, and what are the pros-	
pects of commercial success.	
	10
3. Four constituents are said to have been recognised in most	16
coals. What are they? Enumerate briefly their physical and chemical	
properties.	
4. What do you understand by the following terms?—	17
Fixed carbon; Volatile hydro-carbons; Inherent moisture;	
Fixed sulphur; Volatile sulphur and non-combustible sulphur.	
Describe briefly how you would ascertain the above values.	
5. Give a short account of the Jherria coalfield.	17
6. What are the chief chemical and physical differences between	17
peat, lignite, bituminous coal, and anthracite? Name some localities	
in India where the abovementioned types of coal are found.	
7. State how you would proceed to make a section of coal for	16
microscopic investigation by transmitted as well as by reflected light.	
8. Write an essay on the utilisation of pulverised coal as fuel.	17
Are there any instances of pulverised coal being utilised in India?	
Taking into account recent research work in England on the utilisation	
of pulverised coal, what is your opinion of its use being generally	
adopted?	
9. What are the important properties of metallurgical coke suit-	16
able for blast furnaces? Can you recommend the high grade coals of	
Upper Assam for the manufacture of metallurgical coke?	
What is 'Natural Coke' and how is it produced? Give some	
Trade to Tractical Conc. with non- is it producted. Otto bonto	

GROUP C

Examiners— { Mr. Saratlal Biswas, M.Sc. Prof. K. K. Mathur.

Indian examples.

IGNEOUS ROCKS

The questions are of equal value
Answer FIVE questions only

- 1. Give a short review of the attempts that have been made to classify the igneous rocks, with special notes on the C.I.P.W. Scheme and the new system of petrography proposed by Shand.
- 2. Explain the various methods which have been used for the quantitative estimation of minerals in rocks.
- 3. Describe a method of estimating the percentages of alkalis in a rock, mentioning the precautions which must be taken during the operations.

4. Discuss the effect of the addition of foreign sedimentary rocks on the progress of crystallization of a magma.

6. Write notes on the following rock types:—
Essexite, camptonite, alnoite, and granodiorite.
6. Give an account of Bowen's theory regarding the origin of igneous rocks, and state how this theory is affected by the results obtained by the study of the rocks in India.

7. Describe the petrology of a petrographic province in India with

which you may be familiar.

8. Give an account of the pre-mesozoic volcanic activity in India.

GROUP D

Examiners— { DR. M. S. KRISHNAN, M.A., A.R.C.S., Ph.D. (Lond.). MR. HEMCHANDRA DASGUPTA, M.A., F.G.S.

METAMORPHIC ROCKS

The questions are of equal value Answer SIX questions only

1. What is the difference between Katamorphism and Anamorphism? What changes take place when average igneous rocks are broken up and re'distributed katamorphically?

2. Give an outline of the classification of metamorphic rocks as

proposed by Grubenmann and Eskola.

3. Examine the mineralogical and structural changes produced in the

different stages of anamorphism of clays.

- 4. Enumerate the minerals which can be considered as schist-forming. Under what conditions are schists produced? Mention the different kinds of schists resulting from the metamorphism of igneous and of sedimentary ro ks.
- Discuss the criteria which can be used in the field and in the laboratory for distinguishing between the metamorphic rocks derived from igneous rocks and those derived from sedimentary rocks.

6. Explain the following terms :--

Porphyroblastic, Autoclastic, Meso-zone, Calciphyre, Knotenschiefer,

Epidiorite, Saussurite.

- 7. Write an essay on the Dharwar System of rocks and note the special features of the System as developed in Mysore and the Central
- 8. Explain the process involved in serpentinisation, kaolinisation, dolomitisation, silicification, and mylonitisation. Illustrate your answer with Indian examples.

EXPERIMENTAL PSYCHOLOGY

FIRST PAPER

The questions are of equal value Answer only THREE questions from each half Examiner-Mr. MANMATHANATH BANERJEE, M.Sc.

FIRST HALF

1. Discuss the influence of autacoids on emotional tone.

Give an account of position receptors.

- 8. Criticise the doctrine of specific nerve energy with reference to cutaneous sensations.
 - 4. Discuss the rôle of the cerebellum in synergic control of the muscles.

SECOND HALF

Examiner-Dr. Suhritchandra Mitra, M.A., D.Phil.

1. Trace the principal lines of development of Experimental Psychology from the beginning of the 20th century to the present time.

2. Write a critical estimate of the methods of experiment on thought-

processes.

- 8. Write a short essay on the conception of Memory in the Psychology of the present day.
 - 4. Write a brief note on one of the following:-

(i) Recent experiments on perception.
(ii) Recent criticism of the James-Lange theory of emotion.

(iii) Current views of instinct.

5. Discuss the value of one of the following:

(i) Psycho-Galvanic experiments for the study of emotions.

(ii) Ergography as a method for the determination of mental fatique.

(iii) Introspection.

SECOND PAPER'

The questions are of equal value

FIRST HALF

Examiner—Dr. GIRINDRASEKHAR BOSE, D.Sc.

Try ANY THREE

1. Illustrate the various degrees of mental dissociation.

2. Discuss the question of personality from the mechanistic and purposive points of view.

3. Give a resumé of the psychopathology of delusions and hallu-

cinations.

4. Discuss the relation between Schizophrenia and Introversion.

5. Give an account of symbolisation in neuroses and psychoses.

SECOND HALF

Examiner—Dr. B. C. Ghosh, M.A., M.B.

Only THREE questions are to be attempted.

- 1. Discuss Freud's interpretation of Anxiety-Dreams. What light do the Anxiety-Dreams throw on the general theory of Dreams?
 - 2. Outline the main stages of normal Libido development.
- 3. Compare and contrast the psychological mechanisms of Conversion hysteria and of Obsession neuroses.

- 4. Write a short essay on the Therapeutic principles of Psychoanalysis.
 - 5. Write notes on :-
- (a) Hypnagogic hallucination, (b) Narcissism, (c) Super-ego, (d) Hypnotic sleep, (e) Meta-psychology.

THIRD PAPER

The questions are of equal value

FIRST HALF

Examiner-Mr. Mohanlal Ganguli, M.Sc.

Answer any THREE of the following questions

- 1. Describe fully the different types of animal behaviour you have studied. Give concrete illustrations.
- 2. What is a 'compound eye'? Compare its mechanism of perception with the binocular perception of human beings.
- Discuss broadly the question of the inheritance of acquired characters and illustrate your answer.
 - Discuss critically Loeb's theory of instinct.
 - Write short notes on any four of the following:---

 - (i) Otolith.(ii) Telæsthetic taste.
 - (iii) Lateral-line-canal.
 - (iv) Chordotonal organ.
 - (v) Kinæsthetic memory.
 - (vi) Fabre's suggestion regarding smell stimuli in insects.

SECOND HALF

Examiner-Mr. HARIDAS BHATTACHARYYA, M.A.

Answer any three of the following questions

- 1. What, according to Hobhouse, is the essence of mind? What is the principle that he follows in tracing the evolution of mind?
- 2. Analyse fully Hobhouse's conception of the Practical judgment. How does it differ from Logical judgment?
 - 8. Write a short essay on the use of language by animals.
- 4. Write a short essay on the psychology of chimpanzees with special reference to their emotional life.
- 5. Contrast Thorndike's and Köhler's positions with regard to the facts of imitation in human and animal behaviour.

FOURTH PAPER

The questions are of equal value

FIRST HALF

Examiner DR. HARIPADA MAITI, M.A.

Answer THREE questions only

1. (a) Discuss the nature and functions of children's play.

(b) Describe some fundamental 'Social attitudes' of pre-school children as expressed in their group-plays.

2. (a) Explain the chief characteristics of children's thinking as contrasted with the thinking of civilized adults.

(b) Trace the growth of 'Verbal activity' in children.

3. Examine critically the various theories regarding the causes of

juvenile delinquencies.

4. (a) Perceptions are the outcome of gradual growth through trial

and error experience in children.'

Cite experimental evidence for and against the statement.

(b) Examine the statement of Koffka that children imitate only ' what they understand'

Enumerate briefly the chief contributions to the child-study by the different schools of psychologists since 1910.

SECOND HALF

Examiner-MR. GOPESWAR PAL. M.Sc.

Answer three questions from this half

1. Describe typical learning curves and discuss the meaning of their characteristic features.

Refer to some of the best-known experimental work which

been done upon the learning process.
2. Describe the accepted methods of measuring (a) memory span, and (b) permanent memory; and discuss the importance of these investigations from the point of view of education.

2. Estimate the value of the current processes of measurement in

education known as (a) mental tests, and (b) a hievement tests.

- 4. Name and characterise two or three of the most recent developments of educational technique in schools; and discuss the psychological theory underlying them.
 - 5. (a) Discuss briefly three of the following:

(1) Group measures.

(ii) Measures of group differences.

(iii) Correlation.

(iv) Variable and constant errors. (v) The reliability of measures.

Or.(b) To what extent does 'transfer of training' obtain, and how can it be demonstrated and measured?

(c) Describe some of the experimental work which has been done upon mental work and fatigue, and estimate the educational value of the results.

M. L. Examination

JURISPRUDENCE

Examiner-Mr. Arthur Brown, M.A., LL.D., BAR-AT-LAW.

Candidates may only attempt SIX questions

- 1. Discuss the view that the doctrine of the sovereignty of the State may be compared with that of the natural rights of man, as being only a phase in the evolution of legal ideas.
- 2. Write a note on the 'discretion of the Court' and show how the development of this conception assisted legal progress.
- *3. 'The overthrow of Southcote's Case and the old common law (of Bailment) may be said to date from Coygs v. Bernard (2 Anne, A.D. 1703).' (Holmes.) Expound and comment.
- 4. Write a note on the actual sources of the English common law, considered in relation to theories of Law and Sovereignty.
- 5. Write a note on the manner in which the Renaissance affected the general course of European legal history.
- 6. 'Persons are of two sorts, persons natural created by God... and persons incorporate or politique created by the policy of man (and therefore they are called bodies politique); and those be of two sorts, viz., either sole, or aggregate of many.' (Coke, quoted by Salmond.)

Expound, comment, and criticize.

- 7. Write notes on any three of the following from the point of view of their work and influence in matters of jurisprudence: (a) Gratian, (b) François Hotman, (c) Pothier, (d) Cornelis van Bynkershoek, (e) Thibaut.
- 8. 'The history of property is in the last analysis the history of human nature... being at first collective, in becomes individual and egoistic, and finally tends to take its place in society and the State.' (Miraglia.)

Expound and comment.

9. Write a note on Personality of Laws under the Carolingian Empire.

10. 'Rights and duties are necessarily correlative.... There can be no wrong unless there is someone who is wronged, that is to say, whose right has been violated.' (Salmond.)

A criminal proceeding is one designed for the punishment of a wrong done by the defendant, and a civil proceeding is one designed for

the enforcement of a right vested in the plaintiff.' (Salmond.)

Reconcile these dicta. Discuss the latter in the light of: (a) the actio furti of Roman Law, (b) a private informer's action for penalties.

11 .Discuss the accuracy of the maxim that every man is presumed to intend the natural consequences of his own acts.

12. 'In English law possession is a good title of right against anyone who cannot show a better. . . . Many other legal systems, however, go much further than this.' (Salmond.) Expound.

HINDU LAW

Examiner-Mr. Jyotiprasad Sarbadhikari, M.A., B.L.

The questions are of equal value

1. Indicate briefly the difference in the sources of law (dharma) as enumerated respectively in Kautilya, the Dharmasutras, Manu, and Yajnavalkya.

Or,

Discuss how far king-made laws are recognised as one of the sources of law in Kautilya, Manu, Yamavalkya, and Narada.

2. 'In the history of the word "Sapinda" is wrapped up the whole

history of the law of inheritance.' Develop.

Or,

Discuss whether adoption in Hindu Law is more a temporal or a spiritual institution.

3. 'Under the Hindu system of law, clear proof of usage will outweigh the written text of the law.' Discuss how far this is a correct statement of the dortrine of Hindu jurisprudence in case of conflict between customs and sacred texts.

Or.

Point out the difference between the Mitakshara and the Dayabhaga in regard to (a) treatment of women's rights, (b) conception of property, and (c) con eption of partition and co-ownership.

4. Discuss, on reference to leading cases, the law of surrender of a widow's estate. What is the genesis of the dortrine? Can a widow transfer for value the entire estate in favour of the next male reversioner?

Or.

Discuss, on reference to leading cases, the law relating to alienations of the widow's estate. Explain what is meant by 'benefit of the estate.' Can a widow niienate a portion of the immovable property in order to invest the sale proceeds in a business yielding a larger income?

5. Discuss, giving reasons, who would be the preferential heir accord-

ing to the two schools, as between-

 (a) sonless widowed daughter and married daughter with issue (both in regard to father's and mother's property);

(b) sister's son and paternal uncle;

(c) nephew and paternal uncle;

(d) brother's great-grandson and paternal uncle;

(e) son's daughter's son and paternal uncle;

(f) great-grandfather's daughter's son and maternal uncle;

(g) widow and reunited brother;

(h) father and brother both reunited;

- (i) son and daughter's daughter (in regard to mother's stridhin);
- (j) widow and brother (in regard to an impartible estate in a joint family)?

MUHAMMADAN LAW

Examiner—The Hon'ble Justice Sir Z. R. Z. Suhrawardy, Kt., M.A., B.L., Bar.-at-Law.

Answer the first two questions and any three out of the rest

The questions are of equal value

1. Give a historical sketch of the schism into the Sunni and Shia schools of law. Note the fundamental principles on which the two systems differ as regards the sources of law.

2. Notice the statutes from the commencement of the British rule guaranteeing appli ation of Muhammadan Law to Muhammadans. How far is that law applicable to Muhammadans in the Presidency Towns and in the mufassil? Give some instances of departure from strict Muhammadan Law by British Courts.

3. Discuss the rights of a creditor of a deceased Muhammadan against (a) one of the heirs in possession of his property, (b) transference of the share of an heir with notice of the debt, (c) widow in possession of his

property in lieu of unpaid dower.

4. Write a dissertation on the doctrine of Analogy in Sunni law.

5. How far is marriage a religious institution with Muslims? Distinguish between illegal and invalid marriages, giving reasons and with reference to reported cases. How far is marriage allowable between different sects and with non-Muslims. Discuss the status of the issue of unions according to the Sunni and Shia law.

6. Enumerate the causes of exclusion from inheritance. How far has Act XXI of 1850 modified the rules of Muhammadan Law? Does the operation of the Act extend to the heirs of the apostate, otherwise entitled to inherit when the succession-cpens? Discuss the case law noticing the

latest pronouncement of the Privy Council on the subject.

7. Define, adding explanatory notes:— Radd, Aul, Iddat, Rajat, Mihr-i-misl, Khula, Khalit, Izn, Wali-ijabir. Maraz-ul-maut.

ROMAN LAW

Examiner—Dr. S. C. BAGCHI, B.A., LL.B., LL.D., BAR.-AT-LAW.

Four questions and no more need be attempted

The questions are of equal value

1. Account for the origin of the Comitia Tributa, and explain its connexion with the Concilia Plebis. How do you explain the working of three co-existing legislative assemblies?

2. 'The extension of the solumnities of mancipium to diverse transactions manifests great poverty of invention on the part of the early Roman

jurists.' Discuss.

3. A slave is held by X and Y in the belief that he is their common property. He is in fact the property of X. The slave receives two sums of money from other persons. One is a present, the other is payment for services for which the slave had agreed. To whom do these sums of money belong? Why? How, if in each case the purchaser believing him to be

the property of Y had given him the property expressly for Y?

4. What was litis contestatio? When did it occur? Consider the procedural consequences which follow from the conception of it as a contract

between the parties.

5. What conditions must be satisfied to entitle a man to Condictio Indebiti? What do you suppose to be the basis of the rule excluding this right in the case of obligations the denial of which involves double liability?

6. What form was necessary in Justinian's time for the validity of codicils? What dispositions could a man make by will which he could not make by codicil? Did it make any difference whether the codicil was confirmed or not? If a will failed, might its provisions stand good as codicils? Discuss these questions from the view-points of different distinguished jurisconsults in the time of Justinian.

- 7. 'It is not until the second century of our era that we find under the name of natural obligations various de facto situations to which were attached in default of an action, especially after Julian and Gaius, certain legal effects determined by criteria which were never made clear.' (Declareuil.) Discuss.
 - Write a short essay on one of the following topics:-
- (a) Mistake as a factor in questions of Roman Law; (b) Juristic persons in Roman Law.

PRIVATE INTERNATIONAL LAW

Examiner-The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

The figures in the margin indicate full marks

- 1. Distinguish between domicil of origin and domicil of choice, and discuss this with special reference to the leading case of Udny v. Udny. L.R. 1 S.C. Appeal 441.
- 2. Is any testamentary disposition of movables which is recognised as valid by the law of the testator's domicil at the time of his death valid in England? Illustrate your answer by reference to leading cases on the subject
- Will an English Court give a remedy in the shape of damages in respect of an act which by the law of England imposes no l'ability upon the person from whom the damage in claimed? Illustrate your answer by referring to the facts in Re: 'The Halley 'L.R. 2 P.C. 133.

Is it a good defence to an action brought in an English Court on a judgment in personam of a foreign Court having jurisdiction over the parties and cause that the foreign tribunal has put a construction erroneous according to English law on an English contract? Refer to leading cases on the subject in support of your answer.

4. 'It is sometimes said that a foreign judgment is not enforceable in England if contrary to natural justice—that is to the natural sense of what is right and wrong.' (Lord Esher, M.R.) Develop this and refor to leading cases on the subject.

A person is born in Scotland of parents domiciled there, but not married till after his birth. He is regarded as legitimate by the Law of Scotland. After his father's death can he take as heir lands of his father situate in England? Illustrate your answer with reference to the facts of a leading case on the subject.

- Discuss-
 - (a) the question of the right of a foreign Sovereign to Sue in an English Court;
 - (b) the question of the liability of a foreign-Sovereign to be sued in an English Court.

Refer to leading cases on the subject.

(a) State the circumstances under which English Courts will assume jurisdiction to dissolve a marriage not contracted in England.

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(b) Where the marriage has been colebrated in England, and the domicil of the parties is British, will the English Courts recognize a foreign divorce purporting to dissolve the marriage?

TRANSFER OF PROPERTY

Examiner—The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

The figures in the margin indicate full marks

- 1. Discuss the principle of 'Subrogation,' with special reference to leading English and Indian cases on the subject.
 - (a) Write a short essay on 'The extinction of a security by 20 merger.'
 - (b) 'The case of Toulmin v. Steere (3 Mer 210) has been encrusted with so many exceptions and qualifications that it may be said to be fairly buried in them.' Develop.

Or.

- (a) Show, by an examination of Hindu law, that a security in the modern sense was a comparatively late development in Hindu Jurisprudence.
- (b) Trace the origin and development of the Bye-bil-wufa.
- 3. (a) Define an 'Easement'; analyse the several parts of the 20-said definition.
 - (b) Can in consistent easements co-exist? Give reasons for your answer.
 - (c) What do you understand by 'casements of necessity'?
 Give illustrations.

Or.

- (a) State the nature of the right of support for a building on a person's land for the ad acent land of another, and discuss how it is acquired under (1) the English law, (2) the Indian law.
- (b) Formulate precisely the rights of a dominant tenement in respect of ancient lights. Refer to any leading cases on the subject that you can think of.
- 4. What is the reason of the rule that a purchase by a trustee for sale of property for which he is such a trustee is absolutely void?

 Under what circumstances can a trustee, other than a trustee for sale, buy trust property from his cestui que trust? Refer to leading Indian and English cases on the subject.
- 5. (a) Discuss the do trine of lis pendens as embodied in the Transfer of Property Act. Refer to any leading cases on the subject that you may know. Does the doctrine apply to compulsory sales?
- (b) A property was sold subject to two mortgages. After the completion of the sale, the mortgages were declared invalid. Is the purchaser liable to account to the vendor for the amount of the mortgages as unpaid purchase money? Give reasons for your answer.

PRINCIPLES OF EQUITY

Examiner-Mr. H. D. Bose, Bar.-AT-LAW.

The questions are of equal value

- [N.B.—You are requested to answer not more than five questions. Please deal with such as you attempt exhaustively; and with special reference to IMPORTANT DECISIONS, BOTH ENGLISH AND INDIAN.]
- 1. Listinguish a mortgage from a sale with an option to repurchase, with special reference to the cases of (1) Alderson v. White; (2) Bhagwan v. Bhagwan (P.C.); and (3) Balkishan Das v. Legge (P.C.).

2. Summarise the modern law of Precatory Trusts. Refer to (1) Lamb v. Eames: (2) Mussoric Bank v. Raynor (H.L.); and (3) Coniskey

v. Bowring Hanbury (H.L.).

- 3. Write a short and concise note on the-
 - (i) Equitable doctrine regarding Charitable Trusts;
 - (ii) Equitable Conversion.
- 4. Discuss the do trine of-
 - (i) Subrogation:

or.

(ii) Satisfaction;

or.

(iii) Election.

- 5. Explain and illustrate :-
- 'A Power must be exercised bona fide and for the end designed.'
- Discuss and examine the doctrine of Part Performance by reference to the facts and law, in-
 - (i) Maddison v. Alderson, (ii) Mahomed Musa v. Aghore Kumar Ganguly,
 - (iii) Lakshmi Venkayamma v. Venkata Narasimha Appa Row,

and (iv) Gholam Hossain Casiff Ariff v. Jadunath Mozumdar.

- 7. Summarise-
 - (i) The doctrine of Consolidation of Mortgages;

(ii) Marshalling.

8. Discuss and illustrate the principles governing the granting of Injunctions for infringement of right to-

'(a) Copyright,

(b) Light and air,

- and (c) Support to buildings.
- State the facts of, and the principles enunciated in, any two of the following cases :--
 - (a) Morice v. Bishop of Durham.(b) Chaucey's Case.

 - (c) Allcard v. Skinner.
 - (d) Ackroyd v. Smithson.
 - (e) In re D'Angibau, Andrews v. Andrews.
 - (f) Stapilton v. Stapilton.
 - (g) Ryall v. Rowles.
 - (h) Kreglinger v. New Patagonia Meat, etc., Co.
 - (i) Wallis v. Smith.

Preliminary Examination in Law February, 1931

JURISPRUDENCE

The questions are of equal value

FIRST HALF

Examiners—

{ Mr. Sitaram Banerji, M.A., B.L., Satyendrakisor Ghosh, M.A., B.L., Gopendrakrishna Dutt, M.A., Bar.-at-Law.

Attempt ANY FIVE out of the following seven questions

1. What do you understand by 'Law'? What exactly is the nature of the 'Law' dealt with in Jurisprudence?

2. Write a short thesis on the right of the 'State' to impose 'laws'

on its subjects.

3. "The importance of custom as a source of law continuously diminishes as the legal system grows." Explain and expand.

4. Define a 'right.' Would it be correct to say that "the State is the originator of rights, and that apart from it there are no rights?"

5. Distinguish and discuss 'substantive law' and 'adjective law.' Give examples.

6. Write a note on 'Juridical person.'

Is the 'Corporation of Calcutta' a juridical person? Discuss.

7. Explain and discuss the relation of 'law' to 'Equity.'

SECOND HALF

Examiners—

{ Mr. S. N. Bhattacharyya, B.A., Bar.-at-Law., M. N. Mitter, Bar.-at-Law. Dr. H. N. Sanyal, M.A., Ph.D., Bar.-at-Law.

Attempt any five of the following

1. Analyse the conception of (a) possession, and (b) ownership.

2. Examine Savigny's analysis of a contract with reference to the English law of contract.

3. "The Law of Nations is but private law writ large." Develop.
4. "All property is founded on adverse possession ripened by prescription." Discuss.

5. Write an essay on the 'Law of Nature.'6. "The penal law of ancient communities is not the law of crimes.

It is the law of wrongs." Explain.
7. "The movement of progressive societies has hitherto been a movement from status to contract." Discuss.

ELEMENTS OF ROMAN LAW AND PRINCIPLES OF LEGISLATION

Candidates shall give their answers in their own words as far as practicable

The figures in the margin indicate full marks

The questions are of equal value

FIVE questions only to be attempted in EACH half

FIRST HALF	
Examiners— MR. S. M. Bose, M.A., LL.B., BAR-AT-LAW. DR. A. CHAUDHURI, B.A., LL.B., LL.D., BARAT-LAW. MR. JAJNESWAR, MAJUMDAR, M.A., M.L.	
1. Give an account of the sources of law in the different periods	10
of Roman history. 2. Explain the term capitis deminutio, and distinguish between	10 [.]
the different kinds thereof. 3. Describe the various forms of marriage that prevailed in	10
Rome. 4. Discuss the various Civil law modes of acquisition of property. 5. Give an account of the principal Jura in re aliena. 6. Write short notes on (a) Employeusis, and (b) Ronorum	10 10 10
Possessio. 7. Explain and illustrate the fourfold classification of contracts in Roman Law.	10 [,]
SECOND HALF	
Examiners— { Dr. Sasankajidan Ray, M.A., D.L. Mr. Rupendranarayan Bagchi, M.A., M.L. ,, A. K. Hajra, M.A., Barat-Law.	
1. Illustrate the development of the Lex Aquilia by utilis artio.	10
2 State the conditions of hability under the Lex Aduma. Does	10
an action lie against a lunatic for causing damage? 3. X, who is a slave of A, is killed in a boxing contest with Y,	10
who is a free citizen. Advise A as to his remedy, giving reasons.	10
however, accepts the legacy after X has been killed by Y. Has B any right of action against Y on the Lex Aquilia? 5. "The distinction between Res Man ipi and Res Nec Mancipi is the type of a class of distinctions to which civilisation is much	10
indebted." Explain the above statement. 6. Explain the conception of Usucapion and state the special	10
importance of it in connection with the law of preperty. 7. Write an essay on Testamentary Succession.	10

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HINDU LAW

The figures in the margin indicate full marks

FIRST HALF

	MR.	BIRAJMOHAN MAJUMDAR, M.A., B.I
Examiners—-	,,	SUBODHCHANDRA SEN, M.A., B.L.
	,,	HARICHARAN GANGULI, M.A., B.I.

Answer ANY FIVE questions

1. State some of the principal points on which the Dayabhaga 10 differs from the Mitakshara in its law of the Joint Family and its law of Inheritance.

Indicate the differences in principles on which these differences in the legal rules are based.

2. What is meant by the term "source" in the expression "sources of Hindu Law"?

What are at the present time the living and operating sources

of Hindu Law? 3. Discuss the principles by which to determine what particular

school of Hindu Law governs a particular Hindu. 4. Discuss the differences between the different schools of Hindu 10

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Law as to the widow's power to adopt in the Dattaka form.

5. Discuss the principle for determining whether a particular acquisition made by an individual member of a joint Hindu family is his separate property or is the property of the joint family.

Illustrate by referring to some leading cases. 6. Discuss shortly the liability of the son's share in a Mitakshara 10

joint family property for debts incurred by the father. 7. Write an essay on the nature of the Hindu widow's estate in the property inherited from her husband. 10

SECOND HALF

Examiners—

MR. BATUKNATH BHATTACHARYYA, M.A., B.L.

, SANATKUMAR CHATTERJEE, M.A., B.L.

DHIRENDRAKRISHNA RAY, B.L.

Answer ANY FIVE questions

10 1. "An 'idol' is a juridical person."

· State and discuss some of the legal results which follow from this idea.

2. A Hindu, head of a Mitakshara joint family, dies leaving a widow, a son, a grandson by the said son, two grandsons by a predeceased son, a widow of another predeceased son, and an unmarried daughter.

How on a partition is the property divided? Compare and contrast this partition with that of the early Roman Law, had the deceased been the pater familias.

- 3. A Hindu, governed by Dayabhaga, dies leaving the following 10 relations :-

 - (a) daughter's grandson,(b) brother's daughter's son.

(c) brother's great grandson.

Who, if any, is his heir? Deduce your answer from the principle of the Dayabhaga law of inheritance as expounded in the case of Gooroo Gobind Shaha v. Anund Lall Ghose, 5 B.L.R., 15.
4. State the difference in the concept of Stridhan as expounded

by Vijnaneswara and Jimutavahana, respectively.

Examine how far this difference has been obliterated by

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judicial decisions.

5. Mention and summarise any one instance of legislative enactment in British India modifying or affecting Hindu Law.

Are you in favour of, or opposed to, the enactment? Give

reasons.

6. Argue the case of Sri Balusu Gurulingaswami v. Sri Balusu Ramalakshmamma, L.R 26, I.A. 115, against the view of the Privy Council that the adoption of an only son having taken place in fact is not null and void under the Hindu Law.

7. Give a summary of the facts, arguments, and decision of

any one of the following cases :-

(a) Bhuban Moyee v. Ramkishore, 10 M.I.A. 279.

- (b) Rangasami (fonuden v. Nachiappa Gonuden, L.R. 46,
 - (c) Debi Prosad v. Golap Bhagat, I.L.R. 40 Cal., 721 F.B.

CONSTITUTIONAL LAW

The questions are of equal value

N.B.—Candidates will answer TEN questions in all; FIVE from the First Half and FIVE from the Second Half

FIRST HALF

Examiners—

MR. P. N. BANERJEE, M.A., B.L., BAR.-AT-LAW.

A. S. M. LATIFUR RAHMAN, B.A., LL.B.,

BAR.-AT-LAW.

DR. J. N. MAJUMDAR, M.A., PH.D., BAR.-AT-LAW.

- 1. "British Indian Legislatures are non-sovereign or sub-ordinate law-making bodies without being constituent, and Courts may declare Acts of the Indian legislation, Supreme or Provincial, as ultra vires." (Sarvadhicari.) Discuss.
- "English Constitutional Law is really part of private law." (Sarvadhicari.) Explain.
 - 3. Write notes on any four of the following:
- (a) Acts of State, (b) Impeachment, (c) Mandatory territories, (d) The Act of Settlement, (e) Parliament Act 1911, (f) The Riot Act (1 Geo. Ist 2 C. 5.)

4. How is the right to personal freedom secured in England?
5. Explain what it meant by the doctrine of Ministerial Responsibility in England.

6. Discuss the principles of law laid down in Either.

Empress v. Bura Singh, 59 A. 178.

Or,

Ex parte D. F. Marais (1902) A.C. 109.

- 7. Answer any two of the following questions with reference to leading cases wherever possible :-
- (a) Can the Crown acquire lands belonging to a subject in England without payment of compensation? If so, under what circumstances?

- (b) Can the Crown by the exercise of prerogative levy taxation on the subject in (i) England, (ii) India?

 (c) Can the governor of a Crown colony be tried in the Courts of the colony under his charge?
- (d) Do the judges in (1) England, (ii) India, enjoy immunity in regard to acts or omissions in the exercise of their judicial capacity?
 - 8. Explain any two of the following maxims:

(a) The king can do no wrong.
(b) "Nullum Tempus Occurit Regi," i.e., No time runs against the king.

(c) The king never dies.

(d) The Crown is the symbol of the unity of the British Empire.

SECOND HALF

MR. HIRALAL CHAKRABARTI, M.A., B.L. Examiners—

| The triangle containing of the con

- 1. "The Dominion Parliament is a non-sovereign legislative body and bears decisive marks of legislative subordination." Discuss.
- 2. "Federalism means legalism." "Federalism substitutes litigation for legislation." Explain.
- 8. What is the sanction by which the conventions of the British Constitution are enforced?
- 4. State the exceptions to the rule that all men are equal before the law.
- 5. Distinguish between public, private, and money bills. What is the constitutional position with regard to money bills?
- 6. "Behind Parliamentary responsibility of the Ministers lies legal liability."

How far is it true of the conditions now existing in England?

7. Would you insist on a Declaration of Rights in the future Indian Constitution.

July, 1931

JURISPRUDENCE

The questions are of equal value

FIVE questions only are to be answered in BACH half

FIRST HALF

Examiners.—

| Dr. S. K. Gupta, M.A., B.L., B.Litt., Ph.D., BAR.-AT-LAW. | Mr. M. N. Mitter, M.A., B.L., BAR.-AT-LAW. | ,, S. K. Datta, BAR.-AT-LAW.

1. "Jurisprudence, as a science of civil law, is divisible into three branches which may be distinguished as analytical, historical, and critical." Explain.

How far can you accept the opinion of Holland, that jurisprudence

cannot properly be described as historical or philosophical?

2. "Law has been for centuries described as a command, but this description though essentially true is inadequate to the extent of being misleading." Discuss.

3. What do you mean by the expression "source of law"? Write

a short note on Legislation as an instrument of law making.

4. How do you define "Person" in jurisprudence? What are artificial persons? Is the personality in a corporation real or fictitious?

5. Analyse the conception of a 'legal right.' How do you distinguish

legal right from (a) privilege, and (b) power?

Can you conceive of any imperfect legal right which is recognised

but not enforced by law?

6. Give a short account of Savigny's theory of Possession. How far has this theory been accepted in English Common Law? Why are possessory rights protected by law?

7. Explain the principle on which a 'negotiorum gestor' was entitled to compensation under Roman Law. What is the rule of English Law

on the point?

SECOND HALF

Examiners— { Mr. S. N. Bhattacharyya, B.A., Bar.-at-Law. ,, A. K. Deb, Bar.-at-Law. ,, Rameschandra Pal, M.A., M.L.

1. What are accessory contracts? Write a short note on the law of suretyship.

2. Explain the various ways by which an antecedent right in personam

can be transferred.

3. What do you mean by Constitutional Law? What is its relation with Administrative Law? Explain.

4. "International law is private law writ large." Explain.
5. "The conception of a will or testament cannot be considered by itself. It is a member, and not the first of a series of conceptions. Explain.

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6. 'Occupancy was the process by which 'no man's goods' of the primitive world became the private property of individuals in the world of history." Discuss.

7. "The more archaic the code, the fuller and the minuter is its penal legislation." Explain.

ship.

ELEMENTS OF ROMAN LAW AND PRINCIPLES OF LEGISLATION

Candidates shall give their answers in their own words as far as practicable

The figures in the margin indicate full marks

FIVE questions only to be attempted in EACH half

FIRST HALF

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Examiners— BARAT-LAW. MR. JAJNESWAR MAJUMDAR, M.A., M.L. ,, A. K. HAJRA, BARAT-LAW.	• ,
1. What do you know of the Twelve Tables? State some of the more important provisions thereof.	10
2. Discuss the legal position of the filius familias in respect of	10
his person and proprietary capacity.	
3. State the process of adoption and the legal effects thereof.	10
4. Discuss the natural or original modes of acquisition of property.	10
5. Define Servitude; and explain the various kinds of praedial	10
servitudes	

SECOND HALF

6. Write short notes on (a) Hypothec, and (b) Societas partner-

7. State the rules regarding testamentifactio.

Examiners— { Dr. Sasankajiban Ray, M.A., D.L. Mr. Anilendranath Raychaudhuri, M.A., B.L. Panchanan Ghosh, M.A., B.L.

1. Give an account of the Lex Aquil'a concerning damnum	10
injuria datum. 2. What are the provisions of the Lex Aquilia in case of an	10
instructor wounding a slave whom he is teaching?	10
8. Discuss the measure of damages payable under the Lex Aquilia for the unlawful slaying of quadrupedem nel pecudem.	
4. X, who has given his horse as a pledge to Y, kills it through	10
negligence. Has Y any remedy against X? 6. Write an essay on Jus Naturale.	10 10
6. Explain the importance of nexum in the development of the	TO

law of contract. 7. "The Penal Law of ancient communities is not the Law of Crimes, it is the Law of Wrongs or of Torts." Explain.

HINDU LAW

The figures in the margin indicate full marks

FIRST HALF

Examiners— { M. Jyotiprasad Sarbadhikari, M.A., B.L. Mr. Haricharan Ganguli, M.A., B.L. ,, Gaurmohan Dutt, B.L.

FIVE questions only to be attempted, but your choice must include Nos. 7 and 8.

1. Enumerate the rules of prohibited degrees in marriages as 10 prevalent in the Bengal school.

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2. Explain the doctrine of Factum valet. Illustrate your answer

from the law of marriage.

3. Discuss the eligibility of an only son for adoption.

What is the juristic position of a shebait of a religious endowment? Define his powers in reference to sales and leases of endowed property.

5. Explain the principles laid down in the case of Baijnath v.

Tej Bali, L.R. 48 I.A. 195.

6. Write a short note on 'Antecedent debts.'

7. A, a Hindu governed by the Bengal school, dies without issue,

7. A_1 a Hindu governed by the Bengal school, dies without issue, eaving him surviving his widow W_1 , and his two full brothers, B and C. The widow W_1 succeeded to his estate and lived up to the year 1900. B and C both preceesased the widow W_1 , B leaving a son S_1 and C a childless widow W_2 . C gave his widow W_2 power to adopt a son. S_1 and W_2 survived the widow W_1 . In 1902, W_2 adopted S_2 . There is a dispute between S_1 and S_2 relating to the estate of A. What is your opinion regarding their claims?

8. A_1 a Hindu governed by the Mitakshara school, inherited considerable properties from his father, but had no self-acquired property. He had three sons, B_1 , C_2 , and D_2 . He sent his eldest son B_1 to England where B_2 studied for five years and ultimately became a member of the Indian Covenanted Service. B_2 rose to a high official position and by reason of his thrift saved a good part of his salary and purchased from his savings some immovable properties to which his brothers C_1 and C_2 laid claim on the death of their father to which his brothers C and D laid claim on the death of their father A. Is the claim of C and D justified, and, if so, on what principle?

SECOND HALF

Examiners— { Mr. Sanatkumar Chatterjee, M.A., B.L. , Santoshkumar Pal, M.A., B.L. ,, Narayanchandra Kar, B.L.

1. What is the conception of Daya according to (a) Vijnaneswara, (b) Jimutavahana?

Or.

"On the demise of both parents, participation among the brothers is allowed, and even when they are both living it is right if the mother be past child-bearing." (Vrihaspati.)

How does Jimutavahana reconcile this text with his idea of

heritage?

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2. What are the requisites of a valid surrender by a Hindu · 10 widow of her estate in favour of the presumptive reversioner? Hlustrate your answer by reference to any leading case.

A married woman gets immovable property from (a) her father, (b) her husband by-

(i) inheritance, (ii) gift.

What are her rights over the same? Explain the rule laid down in the case of Buddha Singh v. 10 Laltu Singh, L.R. 42 I.A. 208.

Or,

State the facts of, and the principles formulated in, the case of Suraj Bangsi Koer v. Sheo Prasad, L.R. 6 I.A. 88.

4. A, a Hindu governed by the Bengal school, dies leaving two items of immovable property, X and Y, of almost equal value. His childless widow W succeeds to the same. His only relation who survives him in his brother B. W makes a gift of X only to her brother and retains Y till her death. This gift is with the consent of B. B dies during the life-time of W, leaving a son C, who survives the widow, and after her death impeaches the gift. Discuss the rights of C and of the donee.

5. A, a Hindu widow, inherited from her husband vast properties. She saves the income and purchases immoveable properties from such savings. The incomes of the properties inherited from her husband and of those purchased by her as aforesaid are entered promiscuously and in the same books kept by her, and it is not possible to distinguish them. She dies intestate. On her death, her husband's reversioner and her own stridhan heir loth lay claim to the properties which she possessed at her death, that is to say, the properties she inherited from her husband and those purchased by her.

You are asked to settle the dispute in accordance with law. What would you do? Support your answer with reason.

CONSTITUTIONAL LAW

The questions are of equal value

Candidates will answer TEN questions in all; FIVE from the first half and FIVE from the second half. Credit will be given for reference to decided cass.

FIRST HALF

Examiners—

MR. S. C. CHAUDHURI, M.A., LL.B., LL.D.,
BAR.-AT-LAW.

,. SRIPATI RAY, M.A., B.L.
,. KAMALABHUSHAN BOSE, BAR.-AT-LAW.

1. Explain what is meant by "Parliamentary privileges." Enumerate the more important amongst them.

2. Distinguish between sovereign and non-sovereign legislative bodies. Can the Courts in British India declare Acts of the Indian legislature ultra

vires? If so, to what extent?
3. "English constitutional law has been evolved out of, and is therefore, a part and parcel of the private law or general law of the land." (Sarvadhicari). Discuss.

4. Comment on any two of the following:-

(a) "The common pleas shall not follow the King's Court Lut must

be held in a fixed spot." (Magna Charta.)

(b) "The raising or keeping a standing army within the kingdom in time of peace, unless it be with the consent of Parliament, is against law." (Bill of Rights.)

(c) "No pardon under the Great Seal is to be a bar to impeachment the Company in Farders!" (The Att of Settlement)

ment by the Commons in England." (The Act of Settlement.)

5. "The conventions of the constitution in England depend ultimately on the laws of the land." Illustrate.

- 6. What is the effect of the issue of the writ of Habeas Corpus? Can the High Courts in India issue the writ?
 - 7. Discuss the principles of law involved in-

Either,

The seven Bishop's case, 12 St., tr. 183.

Ex parte D. F. Marais (1902) A.C. 109.

SECOND HALF

J Mr. P. N. Banerjee, M.A., B.L., Bar.-at-Law. Examiners ... A. S. M. LATIFUR RAHMAN, B.A., LL.B., BAR.-AT-LAW. DWIJENDRACHANDRA GHOSH. BAR.-AT-LAW.

- 8. Write notes on any two of the following:
 - (a) Acts of State.

 - (b) The Civil List.(c) Prorogation of Parliament.
 - (d) The Committee of Privileges in the Lords.
- 9. Discuss the principles of law laid down in-

Either.

Empress v. Burah Singh, 59 A 178.

07.

Spooner v. Juddo, 4 M.I.A., 353.

- 10. How far are the Courts the guardians of the constitution in (i) the U.S.A., (ii) England, (iii) India?
- 11. "Theoretically, supremacy of law is as much a cardinal principle of the constitution in India as in England. Barring a few exceptions there is the same equality of all before the law." (Sarvadhicari.) Explain. Enumerate some of these exceptions.
- 12. Explain Naturalisation and Domicil. How can they be acquired in England Can a person have two domicils at the same time?
 - Write a note on the Indian law of Sedition.
- 14. Enumerate the constitutional checks on the exercise of prerogative by the Executive in England.
- 15. Note the points of difference between jury trial in England and in India respectively.

Intermediate Examination in Law, February, 1931

MAHOMEDAN AND PERSONAL LAW

The questions are of equal value

FIRST HALF

Examiners—

Mr. S. Khuda Bux, M.A., B.C.L.,

Barrister-at-Law.

,, Ahmedali Khan, M.A.,

Barrister-at-Law.

- 1. Discuss the position of the Hanifah as a jurist. State the sourcesof Muslim Law.
- 2. Is delivery of possession essential to the validity of a gift under the Muslim Law? Discuss fully the Law on the subject.

 Give instances of gifts with conditions.
- 3. Discuss the principles laid down in the case of Awl Fata Mohamed v. Rasomaya Dhar.

Or,

State the principles regarding exclusion from inheritance.

4. What are the formalities necessary for making a Mohamedan will? Can a bequest be made in favour of an heir?

Oτ.

- Discuss the principles of Muslim Law laid down in Khajooroonissa v. Rowshan Jehan.

5. What are the three classes of heirs recognised by the Sunni school of Muslim Law? In what order do these classes inherit?

SECOND HALF

Examiners— { Mr. Nurul Haq Chaudhury, M.A., B.L. , R. C. Ghosh, M.A., B.L., Barrister-at-Law.

1. What is a writ of Habeas Corpus? What are the statutes that have secured to Englishmen their right of personal liberty?

Or.

The king can do no wrong. Protection and subjection are reciprocal. Explain.

- 2. State briefly the privileges and incapacities of minors. Is a contract entered into by a minor void or voidable?
- 8. How are aliens naturalized in England? Discuss the law on the subject.

4. Discuss how far the English Common Law doctrine, that the servant undertakes the risks incident to the service, including those arising from the negligence of a fellow-servant, has been modified by legislature.

Oτ,

Indicate briefly the conditions under which a master may become liable to third persons for the tortious act of a servant.

5. State the method in which the English Law provides maintenance for an illegitimate child during its infancy.

TRANSFER OF PROPERTY

The questions are of equal value

FIRST HALF

Examiners— { MR. RAMAPRASAD MOOKERJEE, M.A., B.L. PASUPATINATH GHOSH, M.A., B.L.

Answer any five of the following

1. What are the essentials of a valid attestation under the Transfer of Property Act?

A person executes a mortgage deed which is properly attested by only one witness. The executant, however, later on acknowledges his execution before the Sub-Registrar and the Sub-Registrar in due course signs his name on the instrument in the presence of the mortgagor. Is the deed properly attested?

2. What is meant by notice under the Transfer of Property Act?

Write a short note on the doctrine of constructive notice, incidentally discussing the question whether registration of a document is constructive notice of the transaction evidenced by it.

3. Write a brief note on the doctrine of lis pendens.

Does the doctrine of lis pendens apply in the following cases?-

- (a) A brings a suit against B for the establishment of his title to a property X. During the pendency of the suit, the property X is sold in execution of a decree against B; after that A gets a decree.
- (b) A brings a suit for money against B and attaches his property X before judgment. During the pendency of the suit the property X is sold in execution of another decree against B. A wins his suit and gets an order for sale of the attached property.
- 4. Are there any limitations on the power to transfer future or possible interests in property under the Transfer of Property Act?
- 5. What are the various kinds of mortgage recognised by the Transfer of Property Act?

Distinguish between an English mortgage and a mortgage by conditional Sale.

- 6. How can a sale of immovable property be validly effected under the Transfer of Property Act?
- 7. Formulate the principles of law laid down in Lala Hakimles v. Musahar, I.L.R. 34 Cal. 999.

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SECOND HALF

Examiners— { Mr. Gopendranath Das, M.A., B.L. DEBENDRANATH MANDAL, M.A., B.L.

Answer any five of the following

1. A executes and registers a deed of sale transferring land to B, and delivery of possession is given to B; but the price stipulated is not paid. Is the sale complete?

2. Can a mortgagee sue the mortgager for the mortgage money otherwise than by way of foreclosure or sale of the mortgaged property under

any circumstances?

3. What is meant by the doctrine of part performance? Under what circumstances can a transferee under an informal transfer claim the benefit of the doctrine of part performance under the present law?

4. What is the general principle of marshalling as laid down in the

Transfer of Property Act?

Can the purchaser of a portion of the mortgaged property claim a right to marshal?

5. Discuss the principles laid down in Gurdeo Singh v Chandrika, I.L.R. 36 Cal. 193.

6. Do the following documents require to be registered?—

(a) An agreement to sell immovable property by payment of Rs. 1,000 by way of earnest money.

(b) Authority to adopt when conferred by a non-testamentary in-

strument.

- (c) Adoption deed.
- 7. Where property is mortgaged and the mortgagee is placed in possession of the property, is the mortgagee entitled on redemption to any of the following accessions?—
- (a) A lease which expired and was renewed by the mortgagee in his own name.
- (b) Where the mortgaged property is land and buildings to any new structures erected by the mortgagee.

REAL PROPERTY AND SUCCESSION

The figures in the margin indicate full marks

FIRST HALF

Answer any FIVE of the following questions

1. Explain any Two of the following terms :-(a) Estate tail, (b) Springing use, (c) Chattel Real, (d) Equitable mortgage.

2. What is the distinction in English law between property in land and property in goods? How do you distinguish between real and personal actions?	10
3. State clearly the rule against perpetuities. What are the ex-	10
ceptions to this rule? 4. Distinguish between joint tenancy and tenancy-in-common.	10
How can a joint tenant effect partition? 5. Explain: A contingent remainder must vest during the particular estate or eo instanti that it determines. Explain and illustrate the difference between a contingent remainder and an executory devise.	10
6. An executor derives his power from the will and an administrator from the grant of the letters of administration. Explain this rule and show the chief practical consequences which result therefrom.	10
7. State the facts and explain the principles involved in the case of:—	10
(a) London S. W. Ry. Co. v. Gorum, L.R. 20 Ch. D. 562. Or.	
(b) Van Grutten v. Forswell, 1897 A.C. 658.	
SECOND HALF	
Examiners— { Mr. S. B. SINHA, M.A., B.L., BARAT-LAW. HARADHAN CHATTERJEE, M.A., B.L.	
Not more than FIVE questions are to be attempted	
1. Explain any Two of the following terms— (a) Election, (b) Ademption of legacies, (c) Executor de son	10
tort, (d) Administration de bonis non. 2. What do you understand by domicil of origin? What are	10
the facts by which domicil is determined?	10
3. A testator at the commencement of the will gives his house to A, and at the end of the will directs that his house shall be sold and the proceeds shall be invested for the benefit of B. Which disposition shall prevail? Give reasons for your answer.	10
4. What do you understand by "unprivileged will"? How	10
5. Can a legatee under a will executed by a Mahomedan sue	10
the executor for legacy bequeathed to him without taking out the probate?	
6. Can you supply or reject words in a will? What are the	10
guiding rules in this respect? 7. State the facts and explain the principle involved in the case	10
of Bai Moti Vahu v. Bai Manubai, I.L.R. 21 Bom. 709.	

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Narendra v. Kamal Basini, I.L.R. 23 Cal. 563.

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CONTRACTS AND TORTS

The figures in the margin indicate full marks

FIRST HALF

Examiners— MR. MAHIMAMUKUL HAZRA, M.A., B.L. ,, AMARENDRABHUSHAN GHOSH, M.A., B.L.

Only FIVE questions are to be attempted

- 1. (a) State the essential elements of a valid contract under the Indian Contract Act, and illustrate what is understood by a voidable contract.
- (b) A, for natural love and affection, promises to give B, one of his sons, Rs. 10,000. A dies before he fulfils his promise. Has B any right to recover the money? Give reasons for your answer.
- 2. (a) Discuss the contractual liability of minors in English and in Indian law.
- (b) A minor hired a horse and contracted expressly that he would not use it for jumping. A friend of his jumped the horse and killed it. Can the minor be made liable in any way in English law? Give reasons for your answer.
- 3. (a) Distinguish between a condition and a warranty in a contract; and discuss briefly the meaning and nature of a quasi-contract.
- (b) A, a tradesman, leaves a certain article at B's house by mistake. B treats the article as his own by mistake. What is B's liability? Give reasons for your answer.
- 4. (a) Discuss the elements of fraud as a vitiating element in contracts. Mention the circumstances under which silence amounts to fraud (i) in ordinary contracts, and (ii) in contracts aberings fidei
- fraud (i) in ordinary contracts, and (ii) in contracts uberrimae fidei.

 (b) A and B, being traders, enter upon a contract. A has private information of a change in prices which would affect B's willingness to proceed with the contract. A does not inform B of the change. Is the contract valid? Give reasons for your answer.
- 5. (a) Illustrate the exceptions to the rule, "No seller" can give to the buyer of goods a better title to those "goods than he has himself."
- (b) A bought goods of B, representing himself to be C, and then sold and delivered the goods to D. Can B recover from A or D? Give reasons for your answer.
- 6. (a) How far, if at all, can a person acquire rights or incur liabilities under a contract to which he, is not a party?
- (b) A, who owes B Rs. 100, makes over the amount to C to be paid to B. C misappropriates the sum. Can B sue C for the money? Give reasons for your answer.
- 7. (a) How is an agency terminated? How far is a principal liable under a contract in which the agent commits fraud for his own benefit, though acting within his authority?
- (b) A, being B's agent for the sale of goods, induces C to buy them by a misrepresentation, which he was not authorized by B to make. Discuss the liability of B to C.
- 8. Explain the principle laid down in one of the two following 10 cases:—
 - (a) Smith v. Hughes (L. R. 6 Q.B., 597).
 - (b) Hadley v. Baxendale (9 Exch., 341).

ception to that rule.

SECOND HALF

Examiners— { Mr. Jyotiprasad Sarbadhikari, M.A., B.L. , M. A. Ispahani, M.A., Bar.-at-Law.

Only FIVE questions are to be attempted	
1. Define a tort, and distinguish it from a breach of contract and a crime. Can the same act be a tort, a breach of contract, and a crime? Illustrate.	10
2. Enumerate briefly the conditions excluding liability for acts, prima facie wrongful, and explain and illustrate "Volenti non fit injuria."	10
3. (a) Explain and illustrate:—	7
Damnum sine injuria and Injuria sine damno.	•
(b) In an action for Trespass, tresspass is proved in fact. Can it be urged in defence that the plaintiff's possession was wrongful? Give reasons for your answer.	8
4. (a) When is a master liable for the wrongful act of his servant, and how far are bodies corporate liable in tort for acts of their agents or servants?	7
(b) A, who is carrying B (a child of tender years) in her arms, is run over by a car driven rashly by K. A and B are injured. If A had been careful, the accident would have been avoided. Discuss the rights of A and B against K.	3
5. Mention the principal differences between Libel and Slander. How far is "fair comment" a sufficient defence in an action for Libel?	10
6. (a) Explain "negligence," and discuss the doctrine of "contributory negligence."	8
(b) The driver of a cart negligently left the car in custody of a lad whose duty it was to go with the cart to deliver parcels, but he had been forbidden to drive. The lad drove the cart and it collided with A's carriage. Is the employer of the driver liable?	2
7. Is a person liable in tort for inducing another to break a contract? Discuss.	10
8. Discuss the rule in Rylands v. Fletcher, and state the ex-	10

July. 1931

MAHOMEDAN AND PERSONAL LAW

The questions are of equal value

FIRST HALF

Examiners—

MR. AHMED ALI KHAN, M.A., BAR.-AT-LAW.

,, WAHED HOSSAIN, M.A., B.L.

,, S. KHUDA BUX, M.A., B.C.L., BAR.-AT-LAW.

- 1. What essential formalities must a pre-emptor perform before he can claim pre-emption?
- 2. What are the several modes of revocation of will under the Mohamedan Law? Give an example of each.

- Who are the residuaries according to the Hanafite school? 8. What are the sources of Mohamedan Law? What traces of foreign influence, if any, do you find in Muslim Law?
 - Discuss the Mohamedan Law of Dower.

Οτ. How far has Act XXI of 1850 affected the Mohamedan Law as to exclusion from inheritance?

5. What are the essentials of a gift according to the Mohamedan Law?

SECOND HALF

 $Examiners \longrightarrow \left\{ \begin{array}{l} \text{Sir Abdulla Suhrawardy, Kt., M.A., Ph.D.,} \\ \text{D.Litt., Bar.-at-Law, M.L.A.} \\ \text{Mr. Aziz Rahim, Bar.-at-Law.} \end{array} \right.$

- 1. Distinguish between natural allegiance and local allegiance. Explain the maxim: "The king never dies."
- 2. State concisely the powers and duties of a guardian of the property of a minor appointed by Court.
- 3. What is meant by the "Prerogative of the Crown"? Discuss the subject.

Or.

What is the Age of Majority in India?
4. Explain the maxims: "King can do no harm" and "In him there can be no negligence or laches."

Discuss historically the right of Personal Liberty of the subject and its limitations.

5. Has the Court any jurisdiction to remove parents from the guardianship of their children? Name some of the circumstances under which the Court can interfere.

TRANSFER OF PROPERTY

The figures in the margin indicate full marks

FIRST HALF

Examiners— { Mr. Birajmohan Majumdar, M.A., B.L. Mahimamukul Hajra, M.A., B.L.

Answer any FIVE of the following

1. State the rule of law against perpetuities as applied to transfer inter vivos in favour of an individual.

10

The owner of a zemindari covenanted with A that if he (the zemindar) or any of his successors in interest should fail to maintain A or his descendants at any time, then the latter were to have immediate right to a certain village in the zemindari. Is a claim by a descendant of A to the village on the ground that the zemindar had refused to maintain him sustainable? Give reasons for your answer.

2. Distinguish between a vested and a contingent interest in property. Give an instance of a person obtaining, by a transfer, a vested interest in a property without being entitled to the present enjoyment thereof.

10.

Property is transferred to A for life and after his death to B. B dies during the life time of A. How would the property devolve on the death of A? Give reasons for your answer.

3. State the circumstances in and the extent to which a transfer of property is affected by reason of its being made curing the pendency of litigation relating to the property. What is the reason of the rule of law?

10-

4. Define English mortgage, mortgage by conditional sale. What is meant by the right to redeem a mortgage?

10.

When is a person said to have a charge on a property? Distinguish between a simple mortgage and a charge.

5. What is a sale? Distinguish between a sale and a contract for sale.

10

How can a sale of immovable property be made? What ordinarily, are the rights of the purchaser regarding documents of title relating to the property sold, and the rights of the vendor in respect of any part of the purchase money remaining unpaid after the ownership of the property has passed to the purchaser?

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6. A is the owner of a fishery; B is the holder of a leasehold interest in a hotel. B borrows money from A on the mortgage of his leasehold interest in the hotel, it being stipulated in the instrument of mortgage that throughout the term of his lease, whether the mortgage has been satisfied or not, all the fish consumed in the hotel should be purchased from A. B pays off the mortgage debt in full with interest and costs before the expiry of the term of his lease. Does the stipulation about the purchase of fish continue? State reasons and authority for your answer.

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7. A is the owner of a zemindari under which there are certain undertenures. A gives a usufructuary mortgage of the zemindari to B who is put in possession of the zemindari. During the continuance of the mortgage, B buys some of the undertenures. What are the rights of A in respect of the undertenures purchased by B? State reasons and authority for your answer.

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8. A, a Hindu, died leaving property X, a widow W who was his heir, and a brother B who was the presumptive reversionary heir. During the life time of W, B representing that he was the owner of it, sold X to C who obtained possession. After the death of W and when C was in actual possession of X, B sold it to D. Discuss the question of the rights of C and D respectively to the property.

SECOND HALF

Examiners =

MR. Manindranath Ghosh, M.A., B.L.,

Bar.-at-Law.

,, Sureschandra Das, M.A., B.L.

Answer any FIVE of the following but one must be either Question 6 or Question 7.

- 1. What is meant by subrogation? Explain briefly by whom and in what circumstances a right of subrogation can be claimed in respect of a mortgage.
- 2. What are the rights of the mortgagee where the mortgaged property is sold owing to failure to pay arrears of revenue or rent, or where it is compulsorily acquired for a public purpose?
- State what is meant by the marshalling of securities, explaining the circumstances in which such marshalling can be claimed.
 - 3. What is a lease? How can leases be made? How does a 10-lease come to an end?
 - A lease from year to year commenced with the 1st day of January. The lessee has not received before the 1st July, 1930, any notice to quit. Up to what date is the lessee secure from being ejected by notice, there being no special contract, local law or usage affecting the case?
- 4. What is a gift? When does a gift of immovable property become complete? How can a gift of immovable property be made? In what cases may a gift be suspended or revoked?
- 5. (a) What is an actionable claim? How are actionable claims transferred?
- (b) What is the effect of non-registration of a document which is required to be registered?
- 6. How does the Registration Act affect transactions which may be validly effected without any instrument in writing?
- What advantages, if any, does a person secure in respect of his rights under a document by obtaining registration thereof in a case where the document is not one which is required to be registered?
- 7. What are the documents which are required by the Indian Registration Act to be registered?

A memorandum of agreement witnesses that A has contracted to sell to B a house for Rs. 10,000 and has received from B Rs. 1,000 as earnest money. Is the memorandum a document which is required to be registered? Are you aware of any recent legislation on this question?

donatio mortis causa.

REAL PROPERTY AND SUCCESSION

The figures in the margin indicate full marks

First Half	
Examiners— MR. D. N. MITTER, B.Sc., LL.B., BARAT-LAW. ,, RAMENDRAMOHAN MAJUMDAR, M.A., B.I.	. .
Answer any FIVE questions	
1. What is the distinction in English between property in land and property in goods? Is real property synonymous with immovable property?	10
2. Explain: "Primogeniture, as it obtains among the landed gentry of England, is a custom only, and not a right."	10
3. Explain any two of the following terms:—	10
 (a) Personal actions. (b) Contingent remainder. (c) Springing use. (d) Merger. 	
4. What is a base fee? Discuss the rights of a tenant for life.	10
5. State clearly the rule against perpetuity. What are exceptions to this rule?	10
6. What is a clog on the equity of redemption? Discuss the validity of these provisions in a deed of mortgage:—	10
(a) That the mortgage shall not be paid off for a period of	
(b) That during the continuance of the mortgage, whether any money should or should not be owing on the security, the mortgager is bound not to sell in the house any malt liquors except those purchased from the mortgagee.	
7. State the facts and the principles laid down in the case of-	10
(a) Van Grutten v. Forswell (1897) A.C. 658.	
<i>Or</i> ,	
(b) London and South Western Railway Co. v. Gorun, 20 Ch. D. 562.	
SECOND HALF	
Examiners— Mr. Kumudbihari Bose, M.A., B.L., BARAT-LAW. ,, Ambujnath Banerjee, M.A., B.L.	
Answer any five questions	
1. Explain any two of the following terms:-	10
(a) Ademption of legacies, (b) Administration de bonis non, (c) Codicil, (d) Executor de son tort.	
2. What is meant by domicil of origin? How does domicil affect	10
succession to one's properties? 3. What is donatio mortis causa? Explain the law in regard to	10

4. What do you understand by an unprivileged will? How may 10 an unprivileged will be revoked? 5. Examine the effect of the following bequests:-10 (a) A legacy to the youngest son of B, B has no son at the time of the death of the testator. (b) A bequest to A or B. 6. What is "just cause" for revocation of grant of probate? 10 7. State the facts and the principles laid down in the case of-10 (a) Narendranath Sircar v. Kamalbasini Dasi, I.L.R. 23 Cal. 563 (b) Sailajaprosad Chatterji and others v. Jadunath Bose,

CONTRACTS AND TORTS

The questions are of equal value

Candidates are required to answer any FIVE questions from EACH half.

FIRST HALF

Examiners— { Mr. Ramaprasad Mookerjee, M.A., B.L. , Kshetramohan Ghosh, B.L.

1. What are the points of difference in English Law between a simple contract and a contract under seal? Do the English Law and Indian Law differ in this respect?

2. Discuss with reference to case law the effect on a contract of mis-

take as to the identity of the party.

21 C.L.J. 88.

3. (a) X offered a reward of £100 to any person "who will give such information as shall lead to the apprehension and conviction of the person guilty of the murder." A supplied the requisite information before he knew of the offer. Discuss whether A can claim the reward.

(b) The defendant offered to sell specific goods to the plaintiff on certain terms and to keep the offer open until 4 o'clock that day. The plaintiff averred that he did agree within the time allowed, but that the defen-

dant failed to deliver.

Discuss whether the plaintiff is entitled to any relief.

4. (a) "Consideration may be executory or executed, it must not be past." Discuss.

(b) Eastwood, as guard an and agent of Mrs. Kenyon, while she was a minor, had incurred expenses in the improvement of her property: he did this voluntarily, and in order to do so was compelled to borrow money, for which he gave a promissory note. When the minor came of age she assented to the transaction, and after her marriage her husband promised to pay the note. Can Mrs. Konyon be sued upon this promise?
5. "The absence of proof of an intention to deceive does not in all

cases deprive of a remedy the person who has in fact suffered from decep-

tion."

Discuss with reference to case law.

6. State the rules as laid down in Maxim Nordenfelt Gun Co. v. Nordenfelt, and discuss the applicability of those principles in India.

7. Discuss the rights and liabilities of the parties where the existence of the principal is undisclosed.

SECOND HALF

Examiners—

MR. J. N. MAJUMDAR, M.A., B.L.,
BAR.-AT-LAW.
,, M. A. ISPAHANI, M.A., BAR.-AT-LAW.

1. "Every injury imports a damage though it does not cost the party one farthing." Explain.

Distinguish Conversion from Trespass.

- The defendant, a shop-keeper, receives from the plaintiff a parcel, containing bank notes, which the latter picked up from the floor of the defendant's shop; the plaintiff when he hands the parcel to the defendant tells him to keep the same till the owner claims it. The defendant advertises the parcel but no one claims it, and three years having elapsed, the plaintiff requests the defendant to return to him the notes, at the same time tendering the cost of advertising and even offering an indemnity. The defendant refuses. Is the plaintiff entitled to any relief?
- Discuss the principles enunciated in Smith v. Baker (1891) A.C. 325.
 What do you understand by the natural and probable consequences of an act in Tort? Give examples.
- 5. "There is no contribution between joint tort feasors." Discuss this doctrine, its limitations, and exceptions.
 - 6. Write short notes on :-
 - (a) Novation; Justifiable Assault.

- (b) Merger; Privileged Communication.
- State the rule in Rylands v. Fletcher and discuss the exceptions to that rule.

Final Examination in Law February, 1931

LAND TENURES

The questions are of equal value

FIRST HALF

Examiners— { Mr. Manmathanath Ray, M.A., B.L. , Sachindrakumar Rudra, M.A., B.L.

Answer any FIVE of the following questions

• 1. Write a short essay on the "Permanent Settlement" of Bengal, Behar and Orissa, discussing its merits and demerits.

2. Specify the Lakhiraj grants which were declared valid by Regula-

tion XIX of 1793.

- 3. Give an account of the origin of the Patni tenures and state the provisions enacted in Regulation VIII of 1819 for the summary sale of such tenures.
- 4. What are the rights of a purchaser of an entire estate sold for arrears of revenue under the Revenue Sale Law?

5. Enumerate the grounds on which a sale held under the provisions of

Act XI of 1859 may be set aside.

6. On what principles would you support the proposition that a Patnidar is entitled to the Chowkidari Chakran lands resumed by the Government and settled with the Zemindar? Is the Patnidar liable to pay addi-

tional rent for those lands? If so, why?
7. What is meant by "reformation in situ"? State the provisions of Regulation XI of 1825 on the subject and explain the same with reference to the case of Lopez v. Madan Mohan Thakur, 13 M.I.A. 463.

SECOND HALF

Examiners— { Mr. Gopalchandra Das, M.A., B.L. },, Sadhanchandra Raychaudhuri, M.A., B.L.

Answer any FIVE of the following questions

1. What are the different classes of tenants under the Bengal Tenancy Act? How do you distinguish between a tenure-helder and a raiyat?

2. State the grounds on which, and the mode in which, the rent of an

2. State the grounds on which, and the mode in which, the lent of an occupancy-raised may be enhanced.

8. Examine the question of the transferability of occupancy right in Bengal before the amendment of the Bengal Tenancy Act in 1928.

4. A, who is an occupancy raised under B, sells a part of his holding to C and then surrenders the entire holding in favour of his landlord B. B brings a suit to eject C. Discuss the rights of the parties.

5. State fully the distinction between a rent-decree and a money-decree-

Illustrate by giving examples.
6. What are "protected interests" and "incumbrances" under the Bengal Tenancy Act? Explain by giving illustrations.
7. What are the different modes of acquisition of easements? What is an easement of necessity?

EQUITY AND TRUSTS

Only FIVE questions are to be answered in EACH half

The questions are of equal value

Candidates are requested to give the answers in their own words as far as practicable

FIRST HALF

1. Compare the relation of trustee and beneficiary with that of (a) bailor and bailee, and (b) principal and agent.

2. "Equity is not a self-sufficient system. It is a collection of appendices." Explain.

3. What is a charitable trust? Is it correct to say that the rule against Perpetuity does not apply to such trust?

4. Distinguish between a trustee's (a) duties, (b) discretion, and (c) duties coupled with discretion. Give an example of each.

"Equity looks to the intent rather than to form."

Explain and criticise with illustrations.

"An imperfect gift will not be construed as a declaration of trust."

Explain noting exceptions, if any, to the rule.
7. "A trust shall never fail for want of a trustee." Explain and show how the want is supplied.

SECOND HALF

- 1. What is meant by a "trust of imperfect obligation?" Give instances.
 - 2. Examine the character of trusteeship of an unpaid vendor of land.
- 3. Is an executor or administrator as such a trustce for the legatee or next of kin?
- 4. What are the Statutes of Limitation, and when are they not a good defence to an action for breach of trust?
- 5. What are the defences available in a suit for specific performance? Illustrate your answers with examples.
- 6. "While remedy by damages is a matter of strict right, the remedy by injunction is not."

Discuss and amplify.

7. A conveys land to B upon trust to sell and apply one moiety of the proceeds for certain charitable purposes; the other for the maintenance of an idol. B sells the land. Some of the charitable purposes wholly fail and the maintenance of the worship of the Thakur does not exhaust the second moiety of the sale proceeds. What should be done in the circumstances to the proceeds?

EVIDENCE AND CIVIL PROCEDURE

The figures in the margin indicate full marks

Only FIVE questions in EACH half to be attempted

FIRST HALF

Examiners—

MR. S. C. MUKHERJEE, M.A., B.L.,
BAR.-AT-LAW.

J. N. MAJUMDAR, BAR.-AT-LAW.

1. Explain the following: --

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- (a) Circumstantial evidence.
- (b) Judicial notice.
- (c) Presumption.
- "The best evidence must always be given." Explain the 10 maxim and point out its chief applications in the law of evidence.

What do you understand by the term 'secondary evidence'? 10 Enumerate the circumstances under which it may be given.

3. State the leading principles which regulate the burden of proof.

4. Write a short essay on estoppel.

5. State and discuss the principle laid down in Basanta Kumar 10 Roy v. Secretary of State for India (I.L.R. 44 Cal. 858=44 I.A. 104).

6. Write a short note on the doctrine of "suspension of limitation." 10

SECOND HALF

Examiners—

Mr. Ratanmohan Chatterjee, M.A., B.L., Sachindrakumar Guha, M.A., B.L., Bar.-at-Law.

1. Explain the terms :-

(a) Mesne prefits, (b) precepts.

Write a short note on res judicata, bringing forth its basic 10 principle.

3. Discuss the law relating to restitution on the reversal of a decree.

Or,

Under what circumstan es can a sale ir execution of a decree 10 be set aside at the instance of-

- (a) the decree-holder,
- (b) the judgment-debtor,
 - (c) the auction purchaser?

4. Discuss the principles laid down in Hridoy Nath Roy v. Ramchandra Barua (I.L.R. 48 Cal. 138=31 C.L.J. 482).

5. A obtains a decree for money against B in 1913 in the Court of the Subordinate Judge at Howrah. In 1915, the decree is assigned by A to C, without having applied execution. C comes to you for conducting the execution proceedings. He gives you the instruction to proceed against an immovable property of B which is situate within the jurisdiction of the said Subordinate Judge of Howrah. Sketch the progress of the execution proceedings.

A approaches you with the proposal to sue:-

(a) The Secretary of State for India in Council.

(b) A Rece ver appointed by the High Court in its Ordinary Original Jurisdiction.

What would you do in order that the suits when launched may be

good ones?

CRIMINAL LAW

The figures in the margin indicate full marks.

Candidates shall give their answers in their own words as far as practicable

FIRST HALF

Examiners— { Mr. Chandrabhushan Banerjee, B.L. Manindranath Banerjee, B.L.

1. Discuss what offence, if any, A has committed in any two of

10 the following cases:-

(a) B obtains a decree against A for recovery of a certain plot of land which had previously been in the possession of A. Thereafter B goes with a Civil Court peon to obtain possession of the land. A, with ten of his friends, assaults B to prevent the delivery of possession.

(b) A pawns his watch to B for Rs. 50. A few days later, A removes the watch from B's possession intending thereby to deprive

B of the security for his money.

(c) A, in the course of a speech, exhorts his audience to use indigenous goods to the exclusion of British goods saying that would have the effect of touching the pockets of the English who are a nation of shop-keepers, who came to India at the time of the Moghuls bowing a hundred times to the Moghul emperor for permission to trade in India; and, if their pockets could now be touched, the highest officer of the Government of India will have to approach the popular leaders making similar bows and praying for peace.

(d) A says of B, "I do not believe what B said as a witness

at the trial, for B is an unmitigated liar."

2. On January 1, 1930, A receives an information that his enemy, B, had collected men and arms with the object of dispossessing A from his property. A, without taking any steps to inform the police or to complain to a Magistrate, collects men and arms himself to fight B. Six days later, B comes with his men armed, and threatens A's party with violence unless they cleared out of the property. Thereupon A,

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who had been prepared beforehand, attacks B's party, causes hurt to

some of them, and ultimately drives them away.

Advise A if he can successfully plead the right of private Would it make any difference in your advice if the attack by B's party were sudden and unexpected, and A and his men took up whatever they could then lay their hands upon and assaulted B's party?

0r.

A comes to B and threatens to waylay and kill him some day unless B immediately gave him Rs. 500. A takes up a revolver and shoots B dead.

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Advise A if the right of private defence would be available to him in a trial on a charge of murdering B. Would it make any difference if B had pointed a revolver at A threatening to kill A immediately unless he parted with the money?

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3. A leaves with B, his agent, a cheque on a banker signed by A without inserting the sum payable and authorising B to make certain payments on behalf of A, not exceeding Rs. 5,000. B finds that A's debts amount to Rs. 6,000; and, believing that A would approve of his conduct if he paid off the whole of A's debts, fills up the cheque by inserting the sum of Rs. 6,000. A thereupon charges B with forgery. B approaches you for your opinion if he could successfully defend the case. What opin on would you give?

A, B, and C are jointly tried on charges of dacoity and criminal conspiracy to commit the daccity. It is proved at the trial that B and C participated in the dacoity since some days before the dacoity they lived together and met together secretly. A is only proved to have been friendly with B and C, having sheltered them in his own house for a week up to the morning of the day of occurrence when B and C left the place. Can you in such circumstances justify the conviction of all the three on the charge of criminal conspiracy to commit the dacoity?

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"A person who, unconsciously, in a state of drunken sleep, does an act which causes the death of another, is not criminally liable for the act." Discuss this with reference to the English law noting any difference from the Indian law on the subject.

"Even in cases where innecence of intention is a defence, innocence of motive is no defence." Explain and illustrate this with 10

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reference to the doctrine of mens rea in the English criminal law.
5. Discuss the principles of law laid down in the case of Queen Empress v. Bal Gangadhar Tilah, I.L.R. 22 Bombay 112.

SECOND HALF

Examiners— { Mr. J. BAROOAH, BAR.-AT-LAW. BHOLANATH RAY, M.A., B.L.

Discuss briefly the principles of procedure laid down in the 10 case of Barindra Kumar Ghosh v. Emperor, I.L.R., 42 Cal. 957.

2. On what grounds can the Court of Criminal Appeal in England

allow an appeal against a conviction?

State the powers of the following Courts when the Jury 10 cannot come to a unanimous verdict:-

(a) A criminal Court in England.

(b) A Judge presiding over a High Court Sessions in India.

(c) A Sessions Judge in the mufassil in India.

3. At what stage of a trial should a person accused of an offence, and entitled to claim to be dealt with as an Indian British subject, make his claim? What would happen if such a person does not make his claim in proper time? Is the trial of a person, dealt with on the footing that he is an Indian British subject when he is really not so, vitiated by reason of his being so dealt with?

What would be the effect of the trial by Jury of a man charged with an offence triable with the aid of assessors, and of the trial with the aid of assessors of a man charged with an offence triable by a Jury?

d 10° 1 1

4. A, B and C are charged with having committed an offence punishable with imprisonment which may extend to ten years. For what purpose, and on what conditions, can a competent Court tender pardon to A? When can the pardon to A be revoked after A is examined as a witness against B and C?

person who has been 10°

What different courses are open to a person who has been served with a conditional order to remove an unlawful obstruction from a public way?

5. Discuss the validity or otherwise of the trial in any two of the following cases:—

- (a) A and B are accused of a theft in the house of C. B is further accused of two other thefts in the houses of D and E. A and B are tried at the same trial, both being charged with the theft in the house of C, and B alone being further charged with the two other thefts.
- (b) A and B are accused of robbery in the course of which A commits a murder with which B has nothing to do. A and B are tried at the same trial, both being charged with robbery, A alone being further charged with murder.

(c) A is charged with having committed defalcation of four

several items of money in the course of eighteen months.

(d) A is convicted of an offence triable as a warrant case without any charge having been framed against him at all.

July, 1931

LAND TENURES

The questions are of equal value

FIRST HALF

Examiners— MR. SITARAM BANERJEE, M.A., B.L. SADHANCHANDRA RAYCHAUDHURI, M.A., B.L.

Answer any five of the following seven questions

1. What was the object underlying the Putni Regulation? Describe clearly the status acquired by the Putnidar under the said Regulation.

2. What do you understand by a 'lakheraj grant'? thesis on the 'resumption of an invalid lakheraj grant.' Write a short

3. What is the status conferred on the Zemindars by the Permanent Settlement? Is the Zemindar the owner of the soil and everything underneath it?

4. State and explain the grounds on which a sale held under Act XI of 1859 can be set aside.

5. "Fish follows the river and the fisherman the fish." Explain and discuss.

6 Distinguish between 'accretion' and 'reformation in situ,' and' describe the rights of the contiguous owners in reference thereto.

7. Describe the rights of a purchaser in a sale for arrear of revenue of (i) an entire estate, and (ii) a part of an estate.

SECOND HALF

Examiners— { MR. APURBACHARAN MUKHERJEE, M.A., B.L. NIRMALKUMAR SEN, M.A., B.L.

Answer any five of the following seven questions

1. Is the Bengal Tenancy Act an exhaustive and complete code in it-

self. Illustrate your answer.
2. What is the object of the Legislature in curtailing the contractual powers of the ryot? Give three concrete illustrations, showing how the contractual powers have been curtailed.

3. Describe the incidents of the holding of an occupancy ryot on the

following heads :--

(a) Use of land including trees.(b) Transfer,

- (c) Ejectment, and
- (d) Enhancement of rent.
- 4. State and illustrate the rule as to the fixity of rent as laid down in Section 50 of the Bengal Tenancy Act, and describe the circumstances under which the presumption laid down in that Section arises. Explain and illustrate as to how that presumption can be rebutted.

5. "Rent is a first charge on a tenure or holding." Explain and

discuss, referring to a leading case on the subject.

6. What is the nature of the right that is acquired by the purchaser in a sale (voluntary or compulsory) of a non-transferable occupancy hold-

ing? Refer to leading cases.

7. What are the powers of a purchaser of a tenure or holding in execution of a decree for arrears of rent due thereof? State briefly the stepsthat are to be taken for the exercise of such powers by such purchaser.

EQUITY AND TRUSTS

Candidates are requested to give their answers in their own words: as far as practicable

> Only FIVE questions are to be answered in EACH half The questions are of equal value

FIRST HALF

Examiners— MR. CATYACHARAN SINHA, M.A., B.L. P. MITTER, B.A., Bar.-at-Law.

"Equity had come not to destroy the law, but to fulfil it." Discuss.

Distinguish between "Charitable" and "Purpose" Trusts.

3. "Technical words are to be technically construed, but a trust can be created by the most untechnical of words." Develop.

4. (i) A promises, in writing, to convey his house in Central Avenue

to trustees upon trust for B if B marries A's daughter, and B does so.

(ii) A makes a similar promise in writing to B, because B has al-

ready married A's daughter.

Is the promise enforceable, either at law or in equity, in the above In the second case, will it make any difference to B if the promise be made under seal?

5. (a) A trustee employs a solicitor for legal business in connection

with the trust estate.

(b) A trustee, who is a solicitor, does such legal work himself.

(c) A trustee is obliged to travel on estate business.

Is the trustee entitled to be re-imbursed from the trust estate? If so, in which of these cases? Give your reasons.

6. What precautions must a trustee take (a) when selling trust proper-

ty, and (b) when buying it himself?

7. State briefly the facts of, and the principle involved in, the case of "The Mayor of Lyons v. The Advocate-General of Bengal."

SECOND HALF

Examiners— { Mr. Amin Ahmed Chaudhuri, M.A., LL.B., Bar.-at Law. CDr. Susilkumar Datta, LL.D., Bar.-at-Law.

1. Explain the term "Constructive Notice" and show when it is held to apply.

2. What is an Equitable Mortgage? How can it be created and what

are the risks involved in it?

3. Write a short note on the doctrine of "Part Performance."
4. What is meant by (a) "Satisfaction" of debt by legacy, and (b)
Ademption" of legacy by portion?

5. X is the owner of Greenacre; T, a testator, devises Greenacre to Y

and bequeaths to X a legacy of Rs. 10,000.

What is the equitable doctrine applicable here? Is it based on compensation or confiscation?

6. How far 's (a) a vendor, (b) a mortgagee of land, a trustee for pur-

chaser and mortgagor respectively?

7. What is an Injunction? Explain and illustrate the part played by it within the province of Contract.

EVIDENCE AND CIVIL PROCEDURE

The questions are of equal value

Only FIVE questions to be attempted in EACH half

FIRST HALF

Examiners—{ Mr. Manmathanath Ray, M.A., B.L. , J. Barooah, Bar.-at-Law.

Write a short note on the relevancy of evidence, giving examples.

2. Discuss the facts of which the Court will take judicial notice and need not be proved.

- 3. Discuss how far a judgment in a previous suit in which one of the parties in a subsequent suit was not a party can be used in evidence against
- 4. "What is in writing, shall only be proved by the writing itself." Discuss the exceptions to this rule.

5. What are leading questions? When and under what circumstances can they be put? Can you cross-examine your own witness?

6. Discuss the requisites and the effects of (i) acknowledgment and (ii) fraud in extending the period of limitation under the Indian Limitation

7. "When land has been in a condition unfit for actual enjoyment a presumption will be drawn that possession follows title." Explain and discuss by reference to leading cases.

SECOND HALF

Examiners— { Mr. S. B. Sinha, Bar.-at-Law. Bipinchandra Mallik, M.A., B.L.

1. Explain the distinction between (i) decree and order, and (ii) preliminary decree and final decree, giving examples.

2. Write a short note on the properties which cannot be attached or

sold in execution of a decree.

3. On what principle and in what cases is the institution of a fresh suit for a relief which is obtainable by application for execution barred?

- 4. State the special procedure provided in the Civil Procedure Code when a party is a minor. How should the plaintiff proceed on the death of a defendant?
- 5. What are the remed'es open to a plaintiff whose suit has been dismissed for want of prosecution? Can those remedies be followed simultaneously?

6. What are the principles on which (i) a temporary injunction may

be issued, and (ii) a Receiver may be appointed?

7. "A Court has inherent power to do justice." Discuss by reference to leading cases.

CRIMINAL LAW

The questions are of equal value Candidates are to answer any FIVE questions from either half

FIRST HALF

Examiners— MR. S. P. Mookerjee, M.A., B.L., Bar.-at-Law. ,, Chandrabhushan Banerjee, M.A., B.L.

- 1. "A sane adult person is presumed to intend the natural consequences of his conduct." Explain and illustrate this with reference to the doctrine of mens rea.
- 2. When do the following afford a good and when a bad defence to a criminal action?-

Minority, unsoundness of mind, and intoxication.

Are there any limitations to the exercise of a person's right of de-3.

A is attacked by a mob. A fires at the mob and kills certain innocent children who happen to be near. Is A liable for the death of the children?

- 4. Distinguish between the following groups of offences as defined in the Indian Penal Code :-

 - (a) Theft, robbery and dacoity.(b) Wrongful restraint and wrongful confinement.
- 5. A, a jailor, has the charge of Z, a prisoner. A, intending to cause Z's death, illegally omits to supply Z with food, in consequence of which Z is much reduced in strength but the starvation is not sufficient to cause his death. A is dismissed from his office and B succeeds him. B, without collusion or co-operation with A, illegally omits to supply Z with food, knowing that he is likely thereby to cause his death. Z dies of hunger. Discuss the liability of A and B.
- 6. Advise A as to his liability under the Indian Penal Code if in writing an article headed "Bankruptcy of India," he writes: "The ever-increasing poverty of India is due to the crushing over-taxation of the people by a foreign government whose declared policy is that India must be bled

white."

7. Discuss briefly the principles laid down in Ganourilal Das v. King Emperor, I.L.R. 16 Cal. 206.

SECOND HALF

Examiners— MR. BIRBHUSHAN DATTA, M.A., B.L. MANINDRANATH BANERJEE, M.A., B.L.

- 1. Enunciate the principles laid down in Ali Mahammad Mandal v. Piggot, 32 C.L.J. 255.
- 2. What do you understand by the following expressions as used in English Criminal Law?--
- (i) Accessory after the fact; (ii) benefit of the doubt; (iii) the inquest.
- Define (i) Summons case, (ii) Warrant case. Point out the differences in the procedure adopted in the trial of a summons case and a warrant case.
- 4. Write a short note dealing with the respective duties of the judge and the jury in a sessions trial.
- A is tried for the murder of B. What should be the duty of the Judge to explain to the jury, and what should be the duty of the jury to decide?
- Distinguish between Dism'ssal of a complaint, Discharge, and Acquittal.

What are the remedies available to (i) the complainant and (ii) the Crown, in each of these cases?

- Discuss the validity of the trial in the following cases:-
- (a) A is tried at the same trial on two charges, one of stealing a watch from B's table on one occasion and the other of causing hurt to B on a different occasion.
- (b) A and B are accused of robbery, in the course of which A commits a murder with which B has nothing to do. A and B are tried at the same trial, both being charged with robbery, A alone being further charged with murder.
 - 7. Where should the following offences be enquired into and tried?-
 - (i) Offences against the Railways and Telegraph Acts;
- (ii) An offence committed while the offender is in the course of performing a journey.
 - (iii) A charge of receiving or retaining stolen goods.

D. P. H. Examination, May, 1931

PART I

BACTERIOLOGY AND PARASITOLOGY

Examiner-Lt. Col. R. Knowles, I.M.S.

The questions are of equal value

Only Four questions are to be answered

1. What diseases are contracted in India by eating diseased meat? Enumerate and classify them according to their etiological agents. Describe

the etiology of any two of these infections.

• 2. By what laboratory methods would you establish the diagnosis of plague (a) in man, and (b) in a dead rat? How is anti-plague vaccine prepared and used? What species of fleas transmit plague from rat to man, and how are they identified? What is the cause of the seasonal variation of plague in India?

3. What types of infection with anthrax are encountered in India? How would you establish the diagnosis in the laboratory? How would you ascertain whether a shaving brush was, or was not, infected with anthrax

bacilli?

4. By what laboratory methods would you establish the diagnosis of cholera infection (a) in an acute case of the disease, and (b) in a convales-

cent cholera carrier?

5. Describe the life-history of *Filaria bancrotti*. Enumerate the different types of lesions produced by infection with this worm, and discuss their pathogenesis. How is it that one and the same parasite gives rise to such very different clinical symptoms in different parts of India?

CHEMISTRY AND PHYSICS

· Examiner—Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M.H., I.M.S.

The questions are of equal value

1. Discuss the value of a knowledge of ultra-violet rays to the public healthworker. State what you know of these rays and their use from the above point of view.

2. What circumstances determine the amount of dissolved oxygen pre-

sent in water at a particular time?

How would you determine-

(a) the amount of dissolved oxygen present in water at a parti-

(b) the rate at which dissolved oxygen is being absorbed by substances present in the water?

What amounts are found ordinarily in rivers and tanks in India?

- 3. What is an unsaturated fatty acid? To what extent do such acids occur in nature in edible fats and oils? How is the amount present deter mined? How would this figure be likely to vary with the other common chemical constants?
- 4. In what substances consumed by man is lead likely to be occasionally found? What amounts would you consider injurious? How would you determine the amount present in one of the substances mentioned by you?

PART II

HYGIENE AND SANITATION, INCLUDING SANITARY ENGINEERING

Examiner—Dr. B. B. Brahmachari, M.B.

The questions are of equal value

All FOUR questions to be answered

1. A town with a population of 20,000, situated on the upper part of the river Hughli, requires public water supply. Discuss the suitability of the different kinds of filter for the purpose from economic, engineering, and

hygenic points of view.

2. Tuberculosis is highly prevalent in Calcutta, and its incidence is much higher among the females than among the males. Discuss the influence of dwelling houses on the prevalence of the disease. How would you construct them that they may be healthy?

3. What are the risks to public health from a trenching ground for disposal of nightsoil? A population of 10,000 requires a trenching ground, the only land available is in the paddy fields. How would you lay out the trenching ground, and work it so that it may be fairly safe to the public and

to the staff working there?

4. It is reported to you in the morning that there was a feast in the previous night and that some of the guests have been very ill. How would

you proceed to find out the cause of it?

EPIDEMIOLOGY AND INFECTIOUS DISEASES

Examiner-Dr. Taraknath Majumdar, D.P.H., D.T.M., L.M.S.

The questions are of equal value

1. Mention the names of the Anopheles which are responsible for the spread of malaria in Bengal and India, respectively. You have got an annual grant of Rs. 50.000 for anti-malarial measures in a town of 2,00,000 inhabitants, with an area of 6 source miles. Draw up a scheme, as Health Officer of the town, for the reduction of malaria.

2. State the ranges in duration of periods of (a) incubation, (b) fever, (c) infectivity, (d) quarantine period in each of the following diseases, and show how the knowledge may be applied for the prevention of these diseases, namely, small-pox, cholera, plague, yellow fever, typhoid fever, typhus, scarlet fever, measles and diphtheria.

3. Give an account of the methods of preventive inoculation which are being adopted for the control of infectious diseases in the human subject, and give your opinion regarding the value of the methods in each case. State

the dose and strength of the vaccines, etc., used in each case.

4. Describe fully the methods for the destruction of-

(a) flies,

(b) rats on land and on shipboard.

SANITARY LAW, VITAL STATISTICS, AND PUBLIC HEALTH ADMINISTRATION

Examiner—R. B. KHAMBATA, Esq., D.P.H., L.R.C.P., M.R.C.S.

The questions are of equal value

All questions to be answered

1. What is the meaning of permissive and mandatory legislation? Give examples of such legislations in Bengal and in India generally. Do you consider the Indian Epidemic Diseases Act of 1897 gives sufficient powers to Local Governments to stamp out or to prevent an epidemic of malaria?

2. What statistical data are necessary for the preparation of deathrates and birth-rates? What is the value of birth-rates and death-rates from a public health point of view? How is the infantile death-rate usually calculated, and why is a different method employed in calculating the infantile death-rate from that employed in stating the general death-rate?

3. What are the duties of health officers in Bengal? What is their

legal position, and what are their powers?

D.P.H. Examinaton,

August, 1931

PART I

BACTERIOLOGY AND PARASITOLOGY

Examiner—Dr. C. C. Bose, B.A., M.B.

The figures in the margin indicate full marks

1. Write, briefly, on the part played by human beings in the 10 spread of infectious diseases. How would you identify a typhoid carrier?

2. How does Anthrax bacillus infect man? How would you look 10

for evidences of anthrax infection in a carcass?

- 3. Describe the parasite of Kala Azar and review the problem of 10 its transmission.
 - 4. Write short notes, on the following:-

20

- (a) Spirillum minus.
- (b) Filaria Bancrofti.
- (c) Bacteriophagy.
- (d) Complement fixation.

CHEMISTRY AND PHYSICS

Examiner-Dr. B. B. Brahmachari, M.B.

The questions are of equal value

1. What kind of lever is the balance you used in the chemical laboratory? Discuss the position of the centre of gravity of the system in relation to the fulcrum.

On what does the sensitiveness of the balance depend?

How would you test the balance to see if it is true? If it is false, what can it be due to, the beam being in exact equilibrium when there is no load on the pans?

2. Give the proportions of the different proximate principles of food in the wheat flour. How would you proceed in your analysis for their determination?

What is complete protein? Compare the constituents of gelatin, wheat proteins, and meat proteins from the dietetic standpoint of view.

3. How would you estimate available chlorine in a sample of bleaching powder? Give equations of the reactions involved in your analysis.

1. Give the composition of fresh air, expired air, and residual air of the lungs. Compare the wholesomeness of the air vitiated with respiration containing 2 per thousand of ('(), with that of a well-ventilated aerated water factory containing 2 per cent. of it.

How would you estimate (1) in the air of a dwelling room? You find it to be 9.5 mgm. in 4.5 litres of the air, express it in the ratio per thousand by volume, the temperature being 80°F, and pressure, 29.3 inches.

PART II

HYGIENE AND SANITATION INCLUDING SANITARY ENGINEERING

Examiner—R. B. KHAMBATA, Esq., D.P.H., L.R.C.P., M.R.C.S.

The questions are of equal value

All FOUR questions to be answered

- 1. What are the diseases due to "Smoke Nuisance" or pollution of a town by smoke, and what remedies would you propose for the abatement of the pollution? Is there any time limit which you might suggest for smoke emission?
- 2. Describe what is meant by general contamination of milk. What is the result of such contamination? State fully the precautions necessary in (1) the byre, (2) the milk shops, and (3) the dwelling, to prevent such contamination.

- 3. Describe, in detail, the construction of a "Cool Room" in any public institution, a hall or a theatre, which you may have seen. On what principles is the current of hot air cooled and ventilation of the room maintained? Are there any dangers or risks to health involved by dwelling constantly in a "Cool Room" in Calcutta?
- 4. The word "Bonification" or "Bonificazione" is frequently used in Bengal and in Italy in connection with the subject of Malaria and Agriculture. Explain fully its meaning and state what you know of this particular method of combating malaria in Bengal and in Italy.

EPIDEMIOLOGY AND INFECTIOUS DISEASES

Examiner—Dr. TARAKNATH MAJUMDAR, D.P.H., D.T.M., L.M.S.

The questions are of equal value

1. What are the seven Principal Zymotic diseases? Give the incubation period of the principal zymotic diseases and the period of quarantine you would insist on in the case of a contact in each case.

2. You are in charge of a town with a population of 100,000 persons as Medical Officer of Health. The death rate from Tuberculosis in the town is 2.8 per mille. Draw up a scheme for the reduction of Tuberculosis in the

town, the funds at your disposal being Rs. 50,000 annually.

3. There are a large number of lepers in a town in Bengal of which you are the Health Officer. What measures would you recommend and adopt in order to prevent the spread of the disease? What powers are given to you under the existing laws, and what additional powers would you suggest as necessary to deal with this question?

4. You are the Medical Officer of Health of a town in India with a

4. You are the Medical Officer of Fealth of a town in India with a population of 5,00,000. Draw up a scheme for the reduction of venereal diseases in the town, the funds at your disposal being Rs. 2,00,000 annual-

ly for the purpose.

SANITARY LAW, PUBLIC HEALTH ADMINISTRATION, AND VITAL STATISTICS

Examiner—Lt.-Col. A. D. Stewart, M.B., F.R.C.S.F., D.P.H., D.P.M. & H., I.M.S.

The questions are of equal value

ALL questions to be answered

- 1. What are specific death rates? Explain their importance to the sanitarian. How may they be used—
 - (a) In correcting or standardising crude death rates?
 - (b) In investigating health problems in different countries?

(c) In constructing Life Tables?

2. Enumerate the legislation dealing with health and welfare of industrial workers (men, women, and children) in (a) England and Wales, and (b) in India.

Indicate briefly the aim and scope of this legislation.

What defects may be said to exist in the legislation of India quoted by you? What remedies have been recently suggested?

3. "India is at present mainly a nation of rural villages." Explain how this has aided or retarded the progress of public health, using England as an analogy.

Explain the system of health organisation in rural areas in Bengal: at present. Discuss its merits and demerits.

Preliminary Scientific M.B. Examination. April, 1931

ORGANIC CHEMISTRY

(Prof. Jnanendranath Mukherjee, D.So. (Lond.)

Dr. Sudhamay Ghosh, D.Sc.

Examiners-

MR. P. C. RAY, M.A. LT.-COL. T. C. BOYD, I.M.S.

DR. BENIMADHAB CHAKRABARTI, B.A., F.C.S., L.M.S.

QUDRAT-I-KHUDA, D.Sc.

Only THREE questions are to be attempted in EACH half

The questions are of equal value

FIRST HALF

- 1. An organic compound contains a halogen and sulphur. How do you propose to detect them and estimate either of them?
- 2. What are the amino acids? Why are they so important to a student of medical chemistry? Describe the preparation and properties of any two of them.
- Give a short account of any three aromatic antiseptic. they prepared?
- 4. Describe the preparation, properties, and uses of the following: (a) Aspirin, (b) Chloral Hydrate, (c) Amyl Nitrite. (d) Sulphonal.

SECOND HALF

- 1. Give a short account of two of what you consider as the most important purine bodies.
 - 2. Discuss the action of-
 - (a) Mineral Acids on Cane Sugar,(b) Nitric Acid on Phenol,

 - (c) Nitrous Acid on Aniline.
- 3. What is a primary alcohol? How can it be distinguished from the members of the other two classes? How is amyl alcohol prepared?
- 4. Give the general principles for extraction of an alkaloid from a plant, and state how you would satisfy yourself that an alkaloid is present.

INORGANIC CHEMISTRY

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Only THREE questions are to be attempted in EACH half The questions are of equal value

FIRST HALF

1. Explain the following terms: (a) Hydrogen Ion Concentration and (b) Mass Action.

2. How is Ammonia commercially prepared? What are its properties and uses? Mention a very delicate test for Ammonia.

3. Describe the preparation, properties, and uses of the following:-

- (a) White Arsenic.
- (b Sodium Bicarbonate.
- (c) Cuprous Chloride.
- (d) Nitre.
- 4. How is Carbon Disulphide prepared? Mention its properties and. uses.

SECOND HALF

1. What is a decinormal solution? What volume of concentrated sulphuric acid (specific gravity 1.84 and containing 95.6 per cent. of pure H₂ SO₄) will be required to make 500 c.c.s. of a decinormal solution?

2. Define the following terms with examples: (a) Acid Salt, (b) Basic Salt, (c) Acid Anhydride, (d) Water of Constitution.

3. State Avogadro's hypothesis, and explain, with illustrations, its use-

- fulness in fixing molecular weights.
 - Describe what happens when-
 - (a) Chlorine is passed through a solution of caustic soda;

(b) Stannous chloride is added to a solution of ferric chloride:

- (c) Sulphur dioxide is passed through a solution of potassium dich-
- (d) Solution of sodium thiosulphate is added to a solution of I in

PHYSICS

Examiners -- { PROF. T. D. KAR, M.A. Mr. Nibaranchandra Ray, M.A. PROF. D. M. BOSE, M.A., Ph.D. ,, Gopalchandra Bhattacharyya, M.Sc.

The questions are of equal value Only three questions to be attempted in each half

FIRST HALF

1. Describe Fortin's Barometer, and explain its adjustments. What are the corrections applied, and why? Explain, as thoroughly as you can, the meaning of the statement "Normal pressure is 760 mm."

2. What do you understand by esmotic pressure? State the laws and combine them into a single formula.

Calculate the strength of a glucose solution which exerts an osmotic

pressure of 11.2 atmospheres. Molecular wt. of glucose=180.

3. Give a general description of the human ear, and explain how sound vibrations are propagated through it.

4. Define dew point and humidity. Explain the theory of the dew

point hygrometer.

Calculate the vapour pressure when the temperature of air is 30°C, and humidity is 25 per cent. the maximum vapour pressure at 30°C, being 32 mm.

5. Define principal planes and focal length of a thick convex lens. Draw a diagram to obtain the position of the image of an object placed in front of a thick convex lens, the principal planes and focal points being given.

If m_i , and m_i , be the magnifications produced by a thick convex lens when the object is placed respectively at d_i and d_j distances from its pole, calculate the focal length.

SECOND HALF

6. Explain what you understand by rotatory polarisation.

Give a sectional diagram of a polarimeter, and explain its use.

. 7. Define magnifying power of a microscope, and explain any practical method for finding it. On what does it depend, and how does it vary with

the tube length?

8. The terminals of a cell of E.M.F. 2 volts are connected through a resistance of 1,000 ohms to a galvanometer of resistance 200 ohms and shunted by a resistance of 50 ohms. Calculate the current through the galvanometer. If a deflection of 15 mm, be obtained on a scale placed at 150 cm, from the mirror of the galvanometer, calculate the sensitiveness of the galvanometer.

9. Explain the theory and the method of finding px of a solution by the

potentiometer.

Calculate the pr of a N/10 alkali solution, 10 per cent. dissociated.

10. Describe, in detail, any gas tube for producing X-rays, and explain its action. Mention some of the properties of X-rays and compare them with those of cathode rays.

BOTANY

Evaminers—

| Dr. Ekendranath Ghosh, D.Sc., M.B. | Mr. Surendrachandra Banerjee, M.A., B.Sc., F.L.S | Dr. Sahayram Bosé, M.A., Ph.D. | Mr. Kalipada Biswas, M.A.

Only Two questions are to be attempted from EACH part

The questions are of equal value

PART T

1. Give a drawing of a typical vegetable cell. Label all the parts in detail.

. How would you differentiate between deposits of calcium carbonate

and calcium oxalate in plant cells by micro-chemical tests?

3. What are the different types of vascular bundle? Describe them briefly, and give examples of Indian plants where they are found.

PART II

- 1. How do you distinguish between a root and an under-ground stem? 2. Write short notes on:-spike, umbel, capitulum, cyathium, and verticillaster.
 - 3. Describe the various forms of dry dehiscent fruit.

PART III

1. Describe the life history of Mucor.

What is alternation of generations? Illustrate it in case of Fern.

3. Describe the vegetative reproductive organ of Marchantia.

PART IV

Describe the natural order Apocynaces. Give its floral diagram.

What do you know of root absorption?

What is metabolism? Describe its two phases.

ZOOLOGY

DR. EKENDRANATH GHOSH, D.Sc., M.B.

Only TWO questions are to be attempted in BACH part

The questions are of equal value

PART I

- 1. How will you distinguish between animals and plants?
- Describe and draw the structure of an animal cell.
- 3. Discuss the relationship of Zoology to Medical Science.

PART II

- Give a detailed account of the life cycle of Monocvstis.
 Compare the general structures of Protozoa and Metazoa.
- 3. Describe the development and function of collenteron.

PART III

- 1. Draw and describe the maxillipeds of the Fresh-water Prawn, and enumerate their functions.
 - 2. Draw and describe the genital organs of a female cock-roach.
 - 3. Describe the mode of respiration in the Fresh-water Mussel.

PART IV

- Describe, in detail, the branchial arches of Ruhu.
- 2. Draw and describe the ventral aspect of the brain of Guineapig.
- 3. Write short notes on any five of the following:-
 - (a) Alternation of generation.
 - (b) Allantois.
 - (c) Mendel's law.
 - (d) Maturation of the ovum.
 - (e) Parthenogenesis.
 (f) Loreal shield.

 - (g) Zoes larva.
 - (h) Cochlea.

November, 1931

ORGANIC CHEMISTRY

LT.-Col. T. C. Boyd, F.R.C.S.I., D.P.H., I.M.Š. Examiners—

MR. P. C. RAY, M.A.

MR. BENIMADHAB CHAKRABARTI, B.A., F.C.S.,

L.M.S. DR. M. QUDRAT-I-KHUDA, D.Sc.

The questions are of equal value

Only three questions are to be attempted in each half.

FIRST HALF

- 1. Outline a method of determining the molecular weight of a substance. like chloroform, which is volatile without decomposition.
 - 2. Define and illustrate the following terms:—
 - (a) Homologous series.
 - (b) Isomerism.
 - . (c) Hydrolysis.
 - (d) Polymerism.
 - 3. Describe the properties, preparation, and uses of the following:-
 - (a) Acetic ether.
 - (b) Tartar emetic.
 - (c) Resorcinol.
 - (d) Aniline.
- 4. What do you mean by the term cyanogenetic glucoside? Illustrate how you would test for its possible components.

SECOND HALF

1. What is optical activity? Discuss the optical isomerism of organic compound containing two asymmetric carbon atoms.

- 2. Give an example of each of the following classes of substances. Mention their formula and properties:-
 - (a) Amines.
 - (b) Amides. (c) Amino acids.
 - (d) Tribasic acid.
- 3. What do you understand by the term fermentation? Discuss the application of this process in the preparation of alcohol and lactic acid.
- How is Cocaine extracted? What are its properties, tests, and mses'?

INORGANIC CHEMISTRY

The aucstions are of equal value

Only THREE questions are to be attempted in each half

FIRST HALF

- 1. What is a buffer solution? Give examples and explain their importance.
- 2. What do you consider the most important salts of Mercury? Give the preparation, properties, and tests for any two of them.
 - 3. Describe the properties, preparation, and uses of-
 - (a) Boric acid,
 - (b) Bleaching powder,
 (c) White lead.
 (d) Lithium chloride.
- 4. What is coal gas? How is it prepared? What are the important by-products obtained from its manufacture?

SECOND HALF

- 1. Write a short note on:-
 - (a) Ionisation.
 - (b) Dialysis.
- 2. How is chlorine prepared in the laboratory and on a large scale? What is the action of this gas on-

 - (a) Ammonia,(b) Sulphuretted hydrogen.
 - (c) Sulphur dioxide?
 - 3. Illustrate the meaning of the italicised words:-

The anhydrous neutral salt insoluble in aqueous solvents was decomposed by an equivalent quantity of a dibasic acid producing some gaseous anhydride and a saturated solution of an inorganic salt without water of crystallisation but very deliquescent.

4. What are the allotropic forms of Phosphorus? How can you prepare these? What are their properties and uses?

PHYSICS

Examiners -- Mr. T. D. Kar, M.A.

,, Nibaranchandra Ray, M.A.

Prof. D. M. Bose, M.A., Ph.D.

Mr. Gopalchandra Bhattacharyya, M.Sc.

The questions are of equal value

Only THREE questions are to be attempted in each half

FIRST HALF

- 1. What is a manometer? Describe some form of manometer suitable for the measurement of pressures slightly above the atmospheric pressure. Why is mercury generally used in manometers?
- 2. Define coefficient of viscosity. Explain any method for comparing the coefficients of viscosity of two liquids, stating the formula and giving the precautions to be taken.
- 3. Explain what you understand by vowel quality. What is its physical characteristic? Give Helmholtz' classification of the principal vowels, explaining in a general way the modifications of the mouth cavity for their production.
- 4. Define calorific value. Describe any method for finding the calorific value of a solid, deducing the formula and explaining the precautions.
- 5. Describe the spectroscope and explain its adjustments. Explain how the instrument can be used for spectrum analysis.

SECOND HALF

- 6. Deduce the condition of minimum spherical aberration for two lensosseparated by a distance. Describe Huyghen's eyepiece and show that it satisfies the above condition.
 - .7. Explain the construction of Nicol's prism.

You are given two nicols, a slit, and a screen. Explain how you would proceed to test a thin plate for double refraction.

- 8. Explain the theory and the method of measuring the E.M.F. of a cell by the Potentiometer. How would you modify the arrangement for the measurement of a potential difference of about 1,000 volts?
- 9. Describe the construction and the adjustments of a moving coil galvanometer. What law is generally followed by such galvanometers? Make a comparison between a needle and a coil galvanometer.
- 10. Give a sectional diagram of Ruhmkorff's Induction coil and explain the functions of its parts and its use. How can you arrange to get undirectional current from it?

BOTANY

Examiners—	DR. MR.	SAHAYRAM BOSE, M.A., PH.D. SURENDRACHANDRA BANERJI, M.A., B.Sc., F.L.S.
	,,	KALIPADA BISWAS, M.A. SAILESWAR MUKHERJEE, L.M.S.

The figures in the margin indicate full marks.	
Part I	
Answer any Two questions from Part I	
1. What is a fruit? Distinguish between a true fruit and a false fruit. Give examples.	25
2. Write a short essay on dispersal of seeds.	25
· · · · · · · · · · · · · · · · · · ·	
3. Give the characteristics of the natural order Leguminosæ. Distinguish between the sub-orders.	25
PART II	
What is respiration? Distinguish between aërobic and ansërobic respiration.	50
Or.	
Describe how plants obtain their nitrogenous food.	50
PART III	
Describe sclerenchymatous tissue and its distribution in plants. Give sketches.	50
<i>Or</i> .	
Describe the histological structure of a Pine stem. Give sketches.	50
PART IV	
Describe, in detail, the different modes of reproduction in Marchantia.	50
Or,	
Describe the morphology and the life-history of Spiroquia.	60

Describe the morphology and the life-history of Spirogyra.

ZOOLOGY

DR. EKENDRANATH GHOSH, D.Sc. M.D. Examiners—

| M.Sc. (Cal.), D.I.C. |
| Mr. Taraknath Poddar, M.Sc., M.B. |
| Dr. Baini Prasad, D.Sc.

The questions are of equal value

Only TWO questions are to be attempted in RACH part

Illustrate your answers with diagrams

PART T

- 1. Describe the physical and chemical properties of protoplasm.
- 2. Give a short account of the mitotic cell division.

3. What do you know about Mendel's Law?

PART II

- 1. Compare the methods of reproduction of Paramocium and Vorticella.
- 2. Write short notes on:-
 - (a) Parthenogenesis.

 - (b) Golome.(c) Alternation of generations
 - (d) Monocystis.
 - (e) Cnidoblast.
- 3. Make a drawing of the transverse section of Hydra and label the various structures.

PART III

- 1. Describe, in detail, the genital system of Pheretima.
- Describe the vascular system of the fresh-water Prawn.
 Give a short account of the life history of the fresh-water Mussel.

PART IV

- Give a diagram of the arterial system of the toad, and label them.
- 2. How would you distinguish a poisonous from a non-poisonous snake?
- Describe the formation of allantois in Gallus.

First M. B. Examination,

April, 1931

ANATOMY

ANAIOMI	
Examiners— Asst. Surgeon, Rai Nanilal Pan, Bahadur, M.B. Mr. M. N. Bose, M.B., C.M. (Edin.). Capt. Haji Dabiruddin Ahmed, K.I.H., O.B. L.M.S., B.M.S. Dr. Dineschandra Chakrabarti, F.R.C.S.E.	E.,
FIRST PAPER The figures in the margin indicate full marks. FIRST HALK	
1. Describe the "Prostate Gland," giving its chief relations. How is it developed?	65
Describe the right "Supra-renal Gland," giving its relations. How is it developed? 2. Describe the course and distribution of the "Superficial Peroneal Nerve."	60
SECOND HALF	
 What is an "Emissary Vein?" Enumerate the emissary veins, noting their course and communications. Describe the development of the "Cerebellum." 	66 60
SECOND PAPER The figures in the margin indicate full marks. FIRST HALF	
1. Describe the lymphatics of the "Tongue."	60
Or. Describe the lymphatics of the "Urethra." 2. Describe the "Iris." Give its structure and nerve supply.	68
SECOND HALF	
1. Describe the "Arches of the foot." How are they maintained? 2. Describe the Semilunar (Gasserian) Ganglion. Enumerate the structures that you come across in exposing it from the temporal region step by step.	60 66

PHYSIOLOGY

MR. S. C. MAHALANOBIS, B.Sc., F.R.S.E. DR. CHARLES REIDS, M.So., M.D., D.So., PE.D.

FIRST PAPER

The questions are of equal value

FIRST HALF

- 1. Write short explanatory notes on :-
 - (a) The mechanism of peristalsis.
 - (b) Essential amino-acids.
 - (c) Cholesterol.
 - (d) Enterokinase.
 - (e) Reflex mechanism of vomiting.
- State your views on the dietetic requirements of a child six months old.

Or.

Discuss as far as you can, the possible causes of glycosuria in ea young adult. Suggest lines of investigation of such a case.

SECOND HALF

- 1. What is blood pressure? What does it indicate? Describe briefly the factors which maintain it.
 - 2. Describe briefly the functions of elastic fibres in vascular system.

Or.

Describe briefly the chemical control of Respiration.

SECOND PAPER

The questions are of equal value

FIRST HALF

1. What different kinds of sensations are involved in the preservation of the erect attitude, and how do they co-operate? Explain the significance of Romberg's sign. Οτ,

Describe the principal connections of the cerebellum, and explain how they function in synergic control.

- Write short notes on-
 - (a) Visual purple;
 - (b) Mechanism of accommodation;

 - (c) Astigmetism;(d) Eustachian tube;
 - (e) Circumvallate papilla.

SECOND HALF

1. What pigments are found in urine? Discuss their origin.

2. Describe the minute structure and functions of the Thyroid Gland.

07,

Describe the minute structure of the Thymus Gland. Discuss its functions.

November, 1931

ANATOMY

Examiners—

MR. M. N. Bose, M.B., C.M. (Edin.).

RAI BAHADUR NANILAL PAIN, M.B.

CAPT. HAJI DABIRUDDIN AHMED, O.B.E.,

L.M.S., A.I.R.O.

MR. SATYASAKHA MOITRA, L.M.S., F.R.C.S.

(Edin.).

FIRST PAPER

The figures in the margin indicate full marks.

FIRST HALF

- 1. Describe the Tympanic Antrum, giving its relations and 65-development.
 - 2. Give the origin, insertion, nerve supply, and actions of—
 - (a) Superior Constrictor of the Pharynx;
 - (b) Masseter:
 - (c) Supraspinatus:
 - (d) Semimembranous.

SECOND HALF

- 1. Describe the development of the Testis and the mechanism of its descent.
 - 2. Describe the arterial anastomosis around the elbow joint.

 Or,

 Describe the arterial anastomosis around the scapula.

SECOND PAPER

FIRST HALF

1. Describe the Gall bladder and the Cystic duct, mentioning specially their blood and lymphatic supply.

Or.

Describe the position and relations of the stomach and briefly describe its structure, both naked-eye and microscopic.

2. Describe the lymphatics of the mammary gland.

65

SECOND HALF

- 1. Describe the Femoral Canal, stating its position, shape, 60 extent, relations, and contents.
- 2. Describe the origin, course, and distribution of the Phrenic 65 nerve.

PHYSIOLOGY

Examiners—

| Mr. S. C. Mahalanobis, B.Sc., F.R.S.E. Mr. M. M. Datta, L.M.S. Lt.-Col. A. C. MacGilchrist, M.D., D.Sc., M.R.C.P., I.M.S. Prof. Charles Reid, M.A., M.D., D.Sc., Ph.D.

FIRST PAPER

The questions are of equal value

FIRST HALF

- 1. Describe the significance of the presence of the following substances in urine:—
- (1) Indican, (2) Leucine and Tyrosine, (3) Bile pigments, (4) Acetone, (5) Glucose, and (6) Albumin.
- 2. Describe the processes involved and the paths traversed in the transport of fat from the alimentary canal to the circulating blood.

 Or.

Describe the fate of amino acids absorbed from the intestine.

SECOND HALF

- 1. Discuss the effects of oxygen lack of gradual onset on the respiratory mechanism.
- 2. Define the output of the heart (circulation rate). Mention briefly one method for its determination in man, and discuss its maintenance in different postures, e.g., recumbent, erect.

SECOND PAPER

The questions are of equal value

FIRST HALF

Give a short description of the naked-eye structure of the Placents.
 What are its functions?

2. Describe the effects of adrenalin on (1) blood vessels, (2) heart, (3) lungs, (4) alimentary canal, (5) uterus, and (6) metabolism.

Or.

Discuss the effects of Hyperthyroidism on (1) nervous system, (2) metabolism, (3) heart, (4) blood vessels, (5) blood pressure, and (6) eyes.

SECOND HALF

1. Draw a diagram showing the connections of the Optic thalamus with different parts of the cerebrospinal system.

2. Describe minutely the structure of rods and cones. What are the

effects of light on the retina?

Or.

Describe the minute structure of the semicircular canals, and explain their functions.

Second M. B. Examination, April, 1931

PHARMACOLOGY AND MATERIA MEDICA

Examiners -- Dr. P. N. Nandi, M.D.

Capt. P. De.
Dr. S. P. Bhattacharyya, M.D.
Mr. Birendranath Ghosh, L.M.S., F.R.F.P.

The questions are of equal value
Only Two questions in each half to be answered

FIRST HALF

- -1. Write explanatory notes on-
 - (a) Chemotherapy;
 - (b) Ionic theory;
 - (c) Drug allergy.
- 2. Describe the action of drugs on medullary centres.
- 3. Classify the purgatives, and discuss their general mode of action.

SECOND HALF

- 4. How do the following factors influence the action of a drug?-
 - (a) Chemical composition.
 - (b) Methods of administration.
 - (c) Age and sex.
- 5. Describe the pharmacological action of cinchona alkaloids, and describe their use in the treatment of malaria.

6. Compare the action of ergot, pituitrin, and adrenalin on uterus.

ELEMENTARY BACTERIOLOGY AND PATHOLOGY

Examiners -- { I.T.-Col. R. Knowles, I.M.S. Dr. T. Sur, M.D. Mr. Charuchandra Bose, B.A., M.B. Dr. A. C. Ukil, M.D.

Only two questions in each half are to be answered

The questions are of equal value

FIRST HALF

1. Describe, in detail, the morphology and pathogenesis of malignant tertian malarial parasite in man.

- 2. How would you identify the causative organism of Cholera Asiatics from human faces?
- 3. What are specific granulomata? Enumerate their varieties, and describe the microscopical appearances of any two of them.

SECOND HALF

- 4. Describe the morphology and life-history of Filaria Bencrofti in man.
 - 5. Discuss briefly the pathology of cedema.
 - 6. Write short notes on the following:-
 - (a) Eosinophilia.
 - (b) Melanoma.
 - (c) Acidosis.
 - (d) Bacterial toxins.

November, 1931

PHARMACOLOGY AND M. MEDICA

Examiners—

DR. P. N. NANDI, M.D.
LT.-COL. R. N. CHOPRA, M.A., M.D.
M.R.C.S., L.R.C.P., D.C.L.
DR. S. P. BHATTACHARYYA, M.D.
MR. BIRENDRANATH GHOSH, L.M.S., F.R.F.P.

The questions are of equal value

Only Two questions in each half to be answered

FIRST HALF

1. Name the ferments and enzymes used in medicine and describe fully their therapeutic effects.

2. Describe the effect of drugs, acting on the parasympathetic system,

on the cardiac rate output.

- 3. Write short notes on any two of the following:-
 - (a) Vitamines.
 - (b) Insulin.
 - (c) Thyroxin.

SECOND HALF

- 4. Enumerate the counterirritants and describe their mode of action.
- Classify expectorant drugs. Give their mode of action and doses.
 Enumerate the drugs which alter the reaction of urine. Describe their therapeutic uses and give their doses.

ELEMENTARY BACTERIOLOGY AND PATHOLOGY

Examiners—

{ Dr. T. Sur, M.D.
,, Satyendranath Ray, M.B.
Mr. Charuchandra Bose, B.A., M.B.
,, A. C. Ukil, M.B.

The questions are of equal value

Answers to be illustrated with diagrams where necessary

Only Two questions are to be attempted in BACH half

FIRST HALF

1. Describe the mode of formation of thrombi and the effects produced by them.

2. Describe the morphology of Entamæba Histolytica. How would you differentiate Amœbic from Bacillary dysentery by laboratory methods.?

3. Enumerate the anærobic bacteria pathogenic in man. Mention some of the more important pathological conditions caused by them and how they are produced.

SECOND HALF

4. Enumerate the spirochætes pathogenic in man. How would you demonstrate the presence of syphilitic infection by laboratory methods?

5. Describe the life-history, mode of infection, and pathogenesis of Ankylostoma Duodenale.

- 6. Write short notes on the following:-
 - (i) Blood changes in Pernicious Anæmia.
 - (ii) Pigments derived from hæmoglobin.
 - (iii) Mycetoma.
 - (iv) Bacteriolysis.

Third M. B. Examination, April, 1931

MEDICAL JURISPRUDENCE

Examiners— $\begin{cases}
LT.-Col. K. S. Thakur, I.M.S. \\
Major B. G. Mallya, F.R.C.S.I., I.M.S. \\
Mr. A. N. Sen, M.B. \\
Dr. Binaylal Majumdar, L.M.S.
\end{cases}$

The figures in the margin indicate full marks

N.B .- Only two questions to be answered from each half

FIRST HALF

1. Describe the phenomena of Rigor Mortis. How would you 125 detect it? What is its medicolegal significance?

2. Describe the terms "Throttling" and "Suffocation." What 125 are the post mortem appearances of death due to throttling?

3. Describe the signs asymptoms and treatment of Accrite 125

3. Describe the signs, symptoms, and treatment of Aconite poisoning. Give the fatal dose and the fatal period.

SECOND HALF

1. The Police have brought only one pelvis and a femur for 125 examination and report as to sex, age, and stature of the individual. Discuss the relevant points in connection with the examination.

125

2. What are the common ways of inducing criminal abortion in this country? Describe the post mortem appearances in a case of criminal abortion, at the sixth month of pregnancy, induced by local application.

8. How will you distinguish feigned invanity from real insanity? 126 State what procedure you would adopt in sending an insane to a mental hospital.

HYGIENE

| Dr. Tarasnath Majumdar, L.M.S., D.P.H., F.C.S., D.T.M. | Lt.-Col. A. D. Stewart I.M.S. | Dr. R. B. Khambata, D.P.H., M.R.C.P., M.R.C.S. | Lt.-Col. H. Suhrawardy, M.D., O.B.E., I.M.S., D.P.H.

The questions are of equal value

Two questions in EACH half to be answered

FIRST HALF

- 1. What in your opinion are the primary factors causing the high incidence of malaria in Bengal? Mention briefly the main lines of preven-
- 2. What is the action of hypochlorite of lime and potassium permanganate respectively when used for the sterilization of drinking water? How are they used, and in what proportions?

 How would you judge of the safety of drinking water heated by

these two substances?

3. What are the different ways in which Anthrax may be contracted by man? What are the preventive measures that you would adopt to check the spread of this disease?

SECOND HALF

4. Tuberculosis is said to be very prevalent in Calcutta and in Bengal.

What in your opinion are the causes of this high rate of incidence?

5. What is meant by the term "in ectious disease"? At what periods during the course of the disease is a human being "infectious" when suffering from (a) malaria, (b) cholera, (c) enteric fever, (d) dengue fever, (e) diphtheria, (f) cerebro spinal fever, (g) bubonic plague, (h) pneumonic plague?

6. Cholera is said to be "endemic" in Bengal. What does this mean? Why in your opinion does cholera occur every year in Calcutta?

November, 1931

FORENSIC MEDICINE

MAJOR B. G. MALLYA, M.R.C.S., L.R.C.P., Examiners—

| F.R.C.S.I., I.M.S. | I.T.-Col. K. S. Thakur, M.R.C.S., L.R.C.P., I.M.S. | I.M.S. | Mr. A. N. Sen, M.B. | Capt. Dineschandra Chakrabarti, F.R.C.E. | (Ed.).

The figures in the margin indicate full marks

FIRST HALF

1. Classify Wounds. What information can you gather from 125 an incised wound situated on the back of a dead body brought to you for post-mortem examination?

2. How does death from Suffocation occur? How do the post-125

mortem appearances differ according to the cause of death? Oτ,

What is Infanticide? How is it usually caused? How would you determine whether an infant was mature and born alive?

SECOND HALF

1. How will you determine the approximate time of death from

the examination of a dead body?

2. How does Carbon dioxide poisoning occur? Describe the 125 signs, symptoms, treatment, and post-mortem appearance of a case of carbon dioxide poisoning.

Differentiate it from Carbon monoxide poisoning.

Or,
How does rape cause death? The body of a girl of 10 years who died as a result of rape is brought to you for examination. How would you determine the cause of death and her age?

HYGIENE

LT.-Col. A. D. STEWART, M.B., CH.D., F.R.C.S.E., D.P.H., D.T.M.& H., I.M.S. Examiners—

| Dr. Taraknath Majumdar, L.M.S., D.P.H., D.T.M. | D.T

The questions are of equal value

Only TWO questions to be answered in EACH half

FIRST HALF

1. At what seasons of the year in India do anopheline mosquitoes breed most profusely?

What physical conditions in nature favour the propagation of anophelines, and the development of the malarial parasite within the mosquito?

How may this knowledge be used in the prevention of malaria?

2. Explain the following terms:

(a) Splenic index, (b) Gametocyte, (c) Sporozoit, (d) Zygote, (e) Fever index, (f) Schick reaction, (g) Fomites, (h) Vector, (i) Made soil, (j) Damp-proof course.

3. How would you disinfect a tank 40 feet long, 20 feet broad, and 10 feet deep, and a well 4 feet in diameter and 20 feet deep? What chemicals would you use and in what strength?

SECOND HALF

4. What is the maximum seasonal incidence in India of (a) Cholera,

(b) Small-pox, (c) Malaria? How may these facts be applied in prevention?

5. Cholera has broken out in an epidemic form in a small town. What preventive measures would you take, as Medical Officer of Health, to check the epidemic?

6. What part does the house fly play in spreading disease in India? Describe shortly its life history and indicate measures to destroy (a) the adult fly, (b) in the larval stage.

Final M.B. Examination, April, 1931

MEDICINE

FIRST PAPER

The questions are of equal value

FIRST HALF

1. Mention and describe the various ways in which syphilis may affect the heart and its blood vessels. How will you treat cardiac syphilis? $O\tau$.

Name the various types of muscular atrophy. Describe, in detail, the atiology and symptoms of pseudo-hypertrophic muscular dystrophy.

2. Give the signs, symptoms, differential diagnosis, and treatment of kala azar in the acute stage.

SECOND HALF

What is the significance and what are the causes of albuminuria? Give the differential diagnosis of these causes.

SECOND PAPER

The questions are of equal value

FIRST HALF

Give a classification of purpura.
 Discuss the pathogenesis of idiopathic purpura.
 Give the treatment of purpura hæmorrhagica.

Or.

Describe the signs, symptoms, and complications of gastric and duodenial ulcer and give the treatment.

2. Give the pathogenesis, signs, symptoms, and treatment of rickets.

SECOND HALF

Discuss the diagnosis including the differential diagnosis of fluid in the pleural cavity.

SURGERY

Examiners—

Dr. Mrigendralal Mitter, M.D., F.R.C.S.

,, Lalitmohan Banerjee, M.S., F.R.C.S.
,, S. K. Mukherjee, F.R.C.S., D.O.,
D.O.M.S.

Lt.-Col. K. K. Chatterjee, F.R.C.S.
Lt.-Col. W. L. Harnett, M.A., M.D. (Cam.),
F.R.C.S., I.M.S

Major S. N. Mukherjee, F.R.C.S., I.M.S.

FIRST PAPER

The questions are of equal value FIRST HALF

- 1. Give the various methods of producing surgical anæsthesia. What are the indications for and against the employment of each method?
- 2. Mention the cystic swellings which may be met with in connection with the female breast. Describe briefly the pathology and clinical features of each.

SECOND HALF

Either Question 4 or 5 must be answered

- 3. Give the origin, course, and distribution of the ulnar nerve. Describe the clinical signs produced by injury to the nerve at various levels, and explain how they are caused.
- 4. Describe the pathological anatomy and clinical features of congenital Talipes Equino-Varus. Give the differential diagnosis from other conditions which resemble it.

Οτ,

5. What are the causes of ankylosis of the knee joint? Give the differential diagnosis of each.

SECOND PAPER

The questions are of equal value Either Question 4 or 5 must be answered

1. How would you proceed to confirm your diagnosis in a case of suspected simple glaucoma? Describe, in detail, a suitable operation for such a case.

65

- 2. What pathological changes occur in the substance of the brain as a result of recent traumatic intra-cranial hamorrhage? Mention briefly how these changes affect the prognosis.
- 3. Describe, in ascending sequence, the complications of gonorrhosa in its acute, sub-acute, and chronic stages in the male. How would you diagnose and treat a case of unilateral gonorrhosal epididymitis?
- 4. Mention the complications of chronic gastric ulcer. How would you treat each?

Or.

5. What are the causes of homorrhage from the rectum? Describe how you would investigate a case, indicating the deductions you would draw from each clinical sign observed.

MIDWIFERY

Examiners—

| Dr. Kedarnath Das, C.I.E., M.D. | ,, Satinath Bagchi, M.Sc., M.B., M.O. | ,, Narendranath Bose, L.M.S. | ,, Bamandas Mukherjee, L.M.S. | Major P. Fleming Gow, D.S.O., M.B., Ch.B., I.M.S. | Dr. J. N. Das, L.M.S.

FIRST PAPER

The figures in the margin indicate full marks

FIRST HALF

- 1. What are the indications for termination of pregnancy in 50 a case of Hyperemesis gravidarum?
- 2. Describe the surgical technique for the removal of a large 75 ovarian cyst.

SECOND HALF

- 3. Describe the pathology of vesicular or hydatidiform mole, 60 and mention its bearing on modern treatment of this condition.
- 4. Discuss the treatment of menorrhagia in a young unmarried 65-girl.

SECOND PAPER

The figures in the margin indicate full marks

1. A primipara has been in labour for twenty hours, membranes have ruptured, os uteri three quarters dilated, head is engaged, the vertex presenting in the pelvic brim. How would you proceed to deal with the case?

What are the diagnostic points in a case of congenital syphilis in a new-born baby? What treatment would you adopt in such a case?

What are the causes of vomiting in a new-born baby? How would you treat such a case?

- 3. Define (a) Diagonal Con ugate; (b) Attitude of the Foctus; 60 (c) Funnel Pelvis; (d) Test labour.
- 4. What would you do if the placents is not born within an hour after the birth of the child?

November, 1931

MEDICINE

FIRST PAPER

The questions are of equal value

FIRST HALF

1. Give the signs and symptoms of a typical case of Asiatic Cholera. Give its treatment in the stage of re-action.

2. Give the signs, symptoms, and differential diagnosis of Acute Pancreatitis. Give its etiology.

SECOND HALF

(Only one question in this half is to be attempted)

- 1. Give the differential diagnosis of a swelling in the lower part of the right side of the chest.
- 2. How will you investigate a case with pain in the Right Iliac Fossa? Give the possible causes and the differential diagnosis.

SECOND PAPER

FIRST HALF

- 1. Give the most important findings which will lead to a diagnosis of early Tuberculosis of the Lungs. Give an outline of the principles that should guide you in the treatment of such a case.
- 2. Give the signs, symptoms, and d'agnosis of Multiple Peripheral Neuritis. Give the principles of treatment.

SECOND HALF

(Only one question in this half is to be attempted)

- 1. Give the signs, symptoms, and treatment of Myxœdema.
- 2. What are the various types of Circulatory failure? How would you diagnose the different forms and give the treatment of each form?

SURGERY

Examiners—

| Lt. W. L. Harnett, M.A., M.D., (Cam.), F.R C.S., I.M.S.
| Dr. Mrigendralal Mitra, M.D., F.R.C.S., Lalitmohan Banerjee, M.S., F.R.C.S., S. K. Mukherjee, F.R.C.S., D.O., D.O.M.S.
| Lt.-Col. E. W. O'G. Kirwan, M.B., B.C.H., B.A.O., F.R.C.S.I., I.M.S. Major S. N. Mukherjee, F.R.C.S. (E.), I.M.S.

FIRST PAPER

The questions are of equal value

FIRST HALF

- 1. In what forms may carcinoma occur in the tongue? Give the clinical characters, differential diagnosis, and treatment (operative details not required).
- 2. What may be the causes of delayed union and non-union of a simple fracture of the middle third of the humerus?

SECOND HALF

Either Question 4 or 5 must be answered

3. Describe the axillary space with special reference to the arrangement of lymphatic glands, giving their afferent and efferent connections.

4. Enumerate the cystic swellings which may be met with in the middle line of the neck. Give briefly the pathology and clinical features of each.

Or.

5. Describe the varieties of malignant tumours which may occur in bone, giving their pathology and clinical features.

SECOND PAPER

The questions are of equal value

Either Question 4 or 5 must be answered

- 1. What do you understand by the term hypopyon ulcer (ulcer serpens) of the cornea? How is it caused and how would you treat a case?
- 2. Enumerate the different degrees of burns. What are the dangers and complications? How would you treat a case of extensive burns in a child? On what does the prognosis depend?
- 3. Give the causes of hæmatura. Describe the investigation of a case, noting the conclusions to be drawn from each finding.
- 4. What are the complications which may be met with in inguinal hernia? How would you differentiate them?

Or.

5. What are the posterior dislocations of the hip joint? Describe the mechanism of their production. What difficulties may be met with in their reduction?

MIDWIFERY

Examiners—

Dr. Kedarnath Das, C.I.E., M.D.
Lt.-Col. V. B. Green Armytage, M.R.C.P.,
M.D., F.C.O.G., I.M.S.
Mr. Narendranath Basu, L.M.S.
,, Satinath Bagchi, M.Sc., M.B., M.O.
Major P. Fleming Gow, D.S.O., M.B., Ch.B.,
D.P.H., I.M.S.
Mr. J. N. Das, L.M.S.

FIRST PAPER

The figures in the margin indicate full marks

FIRST HALF

1. Describe the menstrual cycle.

2. What are the dangers attending pregnancy and labour in a, 65 patient with valvular disease of the heart? Describe the management of a case of labour complicated by mitral stenosis.

60

SECOND HALF

3. Describe the naked eye anatomy of the pelvic organs and the	60
pregnant uterus with its contents at the twelfth week of gestation.	
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4. What risks does a pregnant woman run if she contracts syphilis or gonorrhea? Describe shortly the treatment of each condition.

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What pathological conditions cause pruritus of the vulva? Give the appropriate treatment.

SECOND PAPER

The figures in the margin indicate full marks

FIRST HALF

	Describe the mechanism of dilatation of the cervix during	65
labour.	What are the causes of slow dilatation of the cervix?	
2.	How do you diagnose and treat a case of inevitable abortion?	60

SECOND HALF

- 3. Describe, in detail, the mode of delivery of the after-coming 65 head in an uncomplicated breech presentation.
- 4. Describe any operative procedure you have seen for the radical 60 cure of complete prolapse of the uterus.

I. E. Examination,

MATHEMATICS.

(COMPUTATIONS, MENSURATION, AND STATICS)

Examiner—Prof. J. M Bose, M.A., B.Sc.

FIRST HALF

The questions are of equal value

Answer ANY THREE questions.

- 1. Estimate by Contracted methods
 - (1) $273.50618 \times 26.02471$ to 2 decimal places.
 - (2) $\frac{0.01678 \times 0.00792}{0.06378}$ to 3 significant figures.

$$V^{2}=1.8L \frac{\frac{6.3}{2}D}{\frac{6.3}{2}D} - \frac{\frac{6.3}{2}D}{-\frac{6.3}{2}D}$$

$$+ \frac{6.3}{2}D + \frac{6.3}{2}D$$

Find V^* when d=40' and L=315'.

2. The side faces of a right pyramid are isosceles triangles with equal angles (a) and each side face makes angle 3 with the base. Find the angle which each slopping side makes with the base.

The angle A of a triangle falls short of a right angle by a small angle of circular measure a. Prove that the side c exceeds $\sqrt{a^2-b^2}$ by ba approximately.

- 3. (1) Find graphically the smallest positive angle which will satisfy tan $\alpha = 2$.
- (2) A weight oscillates up and down at the end of an elastic string. Its depth below the point of suspension t -ec.s after starting is $(12+3\cos 2\pi t)$ inches. At what times will its depth be (i) 15, (ii) 9 inches?
 - 4. Solve the triangle $a=68^{\circ}2$. $b=91^{\circ}3$, $A=38^{\circ}14'$.

What is the difference in area of the two triangles satisfying the given anditions?

SECOND HALF

Answer ANY THREE questions.

1. If three forces acting at a point be represented in magnitude and direction by the sides of a triangle, taken in order, they will be in equilibrium. Establish.

Decompose a force, whose magnitude and line of action are given, into two equal forces passing through two given points, giving a geometrical construction (i) when the two points are on the same side of the force, (ii) when they are on opposite sides.

2. Find the resultant of two unequal unlike parallel forces acting upon a rigid body.

A portmatteau, of length 3 feet and height 2 feet and whose centre of gravity is at its centre of figure, is carried upstairs by two men who hold it by the froit and back edges of its k wer face. If this be inclined at an angle of 30° to the horizonia, and the weight of the portmanteau be 1 cwt., find how much of the weight each supports.

3. Prove that the algebraic sum of the moments of any two forces about any point in their plane is equal to the moment of their resultant about the same point. (Consider the case where the forces neet in a point.)

At what height from the base of a pilla: must the end of a rope of given length be fixed so that a man standing on the ground and pulling at its other end with a given force may have the greatest tendency to make the pillar overaturn?

4. Write down the usual conditions of equilibrium (necessary and sufficient of any system of forces acting in one plane upon a rigid body.

A uniform beam, of length 2a, rests in equilibrium, with one end resting against a smooth vertical wall and with a point of its length resting upon a smooth horizontal rod, which is parallel to the wall and at a distance b from it; shew that the inclination of the beam to the vertical is

$$\sin^{-1}\left(\frac{b}{a}\right)^{\frac{1}{3}}$$

5. Enumerate the three classes of levers. Give illustrations.

If two weights balance about a fixed fulcrum, at the extremities of a straight lever, in any position inclined to the vertical, they will balance in any other position. Fstablish.

(DIFFERENTIAL CALCULAS AND PLANE GEOMETRY)

Examiner-Frof. S. C. Ghosh, M.A.

FIRST HALF

The questions are of equal value

Not more than FOUR questions to be attempted.

1. If S be the space described by a moving point at any time t what is the (i) geometrical, (ii) dynamical meaning of $\frac{ds}{dt}$? If s represent the value of $\frac{ds}{dt}$

at any instant, interpret the meaning of $\frac{d^2s}{dt^2}$ and $v \frac{dv}{ds}$. Explain your result graphically.

2. Differentiate from first principles

Expand $\tan^{-1} x$ in powers of x.

Differentiate the following with respect to x

$$\log_{10} (\log_{10} \cos x), \frac{\sin x}{\sqrt{1-x^2}}, x^r.$$

3. Evaluate the following :--

$$\int dx = \sqrt{\frac{x}{\sqrt{(x-1)(x-2)}}} \qquad \int xe^{x^2} dx, \quad \int \frac{dx}{\cos x}.$$

4. Sketch the graph of :-

$$u = xe^{-x}$$

accurately on graph paper from x=0 to x=1 and find by any method the area included between the curve, the ordinate at x=1 and the x axis.

Estimate roughly the shape of the curve when x is very large on the positive side.

5. A cable weighing 5 lb. per foot is strained to a tension of 60 lb. and hangs freely from two points A and B in the same horizontal line, the sag being 33.1464 ft. Taking the form of the cable to be same as the curve

$$y = \frac{1}{2}c \left(\frac{x}{e^{-c}} + e^{-\frac{x}{c}} \right).$$

draw the form assumed by the cable and estimate the tension at 12 ft. from the centre.

SECOND HALF

Answer ANY THREE questions

1. Show that any equation of the first degree in x and y always represents a straight line.

Find the equation to the straight line which passes through the point (4, -5) and which is parallel to the straight line

$$3x+4y+5=0$$

2. Show that the straight line

$$y = mx + a\sqrt{1 + m^2}$$

is always a tangent to the circle $x^2 + u^2 = a^2$.

Find the equation to the circle whose centre is at the point (a, b) and which passes through the origin and prove that the equation of the tangent at the origin is ax + by = 0.

3. Show that the radical axes of three circles, taken in pairs, meet in a point.

Find the general equation of all circles any pair of which have the same radical axis as the circles

$$x^3 + y^2 = 4$$
 and $x^2 + y^2 + 2x + 4y = 6$.

4. Prove that the middle points of a system of parallel chords of a parabola all lie on a straight line which is parallel to the axis.

Find the equation to the chord of the parabola $y^2 = 4ax$ which is bisected at the point (h, k).

5. Find the locus of the point of intersection of tangents to an ellipse which meet at right angles.

If sy and s'y' be the perpendiculars from the foci upon the tangent at any point P of the ellipse, shew that y and y' lie on the auxiliary circle.

GENERAL CHEMISTRY

Examiners - { PROF. N. N. SEN, M.Sc., A.I.E., A.R.S.N. PROF. R. N. SEN, M.A., M.Sc.

Not more than THREE questions are to be attempted in EACH half

The questions are of equal value

FIRST HALF

- 1. Explain the meaning of the terms: ionisation, electrolysis, colloidal solution, fractional distillation, and calcination. Give examples in illustration of your answer.
- 2. State what products under what conditions can be obtained from mixtures of (a) coke and sodium sulphate, (b) sand, coke, and salt, (c) chalk and clay, (d) coke and steam. State the properties and uses of the chief product formed in each case.
- 3. How is lead obtained from its ores and how is it purified? Name and give approximate compositions of three industrial alloys of lead, and state how you would proceed to detect the metal in these alloys.
- 4. Explain fully what you understand by (1) calorific value in calories, (2) calorific value in British Thermal Units, and (3) evaporative power of a fuel.

One hundredweight of a coal having a calorific value of 7,600 calories is burnt in a boiler. Assuming that seventy per cent, of the heat is transmitted to the boiler, calculate the total quantity of water that can be exaporated at 212°F. [Latent heat of evaporation of water = 966 B.Th.U.]

SECOND HALF

- 5. Write explanatory notes on the following with illustrations:

 Allotropy, Eutectic point, Exothermic and Endothermic compounds,
 Explosion.
- 6. Give the composition, and briefly describe the manufacture, of (a) Plaster of Paris, (b) Potash alum, (c) Potassium dichromate, (d) Permanganate of potash.
- 7. Write what you know about Goldschmidt's Thermit process, Alloys of copper, Temporary and Permanent hardness in water, Producer gas.
- 8. How are the following substances prepared and what are their uses?—
 Superphosphate of lime, Calcium cyansmide, Yellow prussiate of potash, Prussian blue, Red lead.

GENERAL CHEMISTRY.

PRACTICAL PAPER.

Examiners— { PROF. N. N. SEN, M.Sc., A.I.E., A.R.S.N. PROF. R. N. SEN, M.A., M.Sc.

[N. B.—The number of the mixture should be carefully entered in the answer book.]

- 1. Make a complete qualitative analysis of the given mixture which may contain not more than four inorganic radicals, basic and acidic.
 - 2. Submit your practical note-book.

PHYSICS

Examiners - { PROF. A. C. CHAKRABARTI, M.Sc., M.A. (CANTAB.) DR. S. DUTTA, D.Sc.

Only THREE questions to be attempted from EACH half.

The questions are of equal value.

FIRST HALF

1. Discuss briefly the principal errors of a mercurial thermometer and the means used to reduce them.

2. Explain the difference between a permanent gas and a vapour.

Describe Regrault's method of finding the coefficient of expansion of a gas at constant pressure. Discuss the necessary corrections.

- 3. Define specific heat of a gas at constant pressure and at constant volume. Which of these is greater, and why? How would you measure one of them accurately?
- 4. Define magnetic potential and deduce an expression for the intensity of the field at any point.

When the magnetic potential at every point is known, how will you plot the lines of force?

SECOND HALF

5. Draw a diagram of "submkosff's coll and explain the importance and design of the core and the condenser.

6. State Faraday's laws of Electrolysis Show that the facts of electrolysis

suggest that there is a natural unit of electricity.

The electro-chemical equivalent of Hydrogen is '0000104. How much zinc will be consumed in a battery per year if it is used to work a telephone circuit of resistance 1000 olims for half an hour every day? The battery consists of 10 Leclanché cells in series, each of 1.5 volts.

- 7. Describe, giving its theory, the Huyghen's eyepiece. What are its merits and defects?
- 8. Define the nodal and principal points of a thick lens. What are their optical properties?

Find the positions of the nodal, principal, and focal points when a glass-

sphere is used as a converging lens.

MATHEMATICS

CALCULUS AND PLANE GEOMETRY

Examiner-Prof. J. M. Bose, M.A., B.Sc.

The questions are of equal value

[Not more than THREE questions to be attempted from EACH half.]

FIRST HALF

1. Find the nth differential coefficient of the following:

$$\frac{x}{(x-a)(x-b)}, \frac{1}{x^2+a^2}, e^{ax}\cos(bx+c).$$

2. If
$$a \sin^{-1} x$$
 $y = e$

prove that $(1-x^2) \cdot \frac{d^2y}{dx} - x \cdot \frac{dy}{dx} = a^2y$.

Prove by expanding the first differential coefficient of $tan^{-1}x$ and comparing coefficients that

$$\tan^{-1}x = n\pi + x - \frac{x^2}{3} + \frac{x^6}{5} \dots$$

3. A curve is referred to the tangent and normal at the origin as axes of z and y respectively.

Prove that its radius of curvature at the origin is

$$L_{2x}^{\frac{y^2}{2}}$$

when x and y both become evanescent.

Find the radii of curvature at the origin of

$$y^{2}-3xy-4x^{4}+x^{5}+x^{4}y+y^{5}=0.$$

4. If a < b and if G is the (algebraically) greatest and L (algebraically) least value of F(x) within the interval (a, b) prove that

$$\int_{a}^{b} F(x) dx \text{ lies between } G(b-a) \text{ and } L(b-a).$$

Prove that

$$\int_{0}^{1} \frac{dx}{\sqrt{4-3x+x^{3}}} < \int_{0}^{1} \frac{dx}{\sqrt{4-3x}} \text{ but } > \int_{0}^{1} \frac{3x+8}{16} dx,$$

i.e., $<\frac{3}{8}$ but $>\frac{1}{3}$.

5. Evaluate the following :-

$$\int_{0}^{1} \log x \, dx \int_{0}^{\frac{\pi}{3}} \frac{\cos^{3} x \sin x}{\sqrt{1 + e^{3} \cos^{3} x}} dx \int_{0}^{\pi} \frac{d\theta}{a + b \cos \theta}$$

Prove without intergration

$$\int_{0}^{\pi} \log \tan x \, dx = 0.$$

SECOND HALF

1. (a) Show that the area of the triangle whose vertices are (x_1, y_1) , (x_1, y_2) , and (x_3, y_3) is

Hence or otherwise prove that (2,3), (4, 5), and (6, 7) are collinear.

(b) Find the equation to the straight line passing through (1, 1) and the intersection of

$$12x+13y+2=0$$
 and $25x+16y-50=0$.

- 2. (a) Find the polar of a given point with respect to a given circle and show that the polar is perpendicular to the straight line joining the centre to the given point.
 - (b) Find the length of the tangent from (3, 0) to the circle $x^2+y^2+5x-8=0$.
 - 3. Show that $y = mx + \frac{a}{m}$ is a tangent to the parabola $y^2 = 4ax$.

Find the locus of the point of intersection of two tangents to a parabola, which are (i) perpendicular, (ii) inclined to each other at 45°.

4. Trace the conic

$$\frac{x^3}{9} + \frac{y^3}{4} - \frac{2}{3}x - y + 1 = 0,$$

and find its latus rectum and eccentricity.

Find also the diameter of the conic, conjugate to

$$2x - 3y = 0$$
.

MATHEMATICS

(DYNAMICS AND APPLIED MECHANICS)

Examiner-Prof. S. P. Das, M.A.

The questions are of equal value.

Not more than three questions to be attempted from each group.

FIRST HALF

1. Find an expression for the thrust on a plane lamina immersed vertically in a heavy homogeneous liquid.

A rectangle is immersed in a heavy homogeneous liquid with one side in the surface. Show how to draw a horizontal line dividing it into two parts, the thrusts, on which are equal.

2. What do you understand by the Force of Buoyancy and the Centre of Buoyancy? Find the conditions of equilibrium satisfied by a solid floating freely in a fluid.

A ball weighing 300 grammes floats in mercury of density 13.6 with 3 of its volume immersed. Find the density and volume of the ball.

3. Enunciate and fully explain the Second Law of Motion.

A force of 30 dynes acts upon a mass of 50 grammes initially at rest. What velocity does it generate in 21 seconds?

. Either

State the principle of conservation of momentum and deduce it from the Laws of Motion.

A 30 lb. shot is fired from a 3-ten gun with a velocity of 1,120 ft./sec.; find the impulse of the explosion and the velocity of recoil of the gun.

Show that the path of a projectile in vacuo is a parabola. If the velocity of projection be u at an angle α with the horizon, find the range on the horizontal plane. After what time does the projectile move in a direction perpendicular to the direction of projection?

SECOND HALF

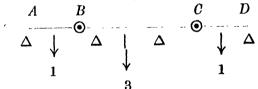
I. Define Working stress. Young's modulus, and Poisson's ratio.

A steel bar of rectangular cross section $2'' \times \frac{1}{2}''$ is subjected to a pull of 10 tors in the direction of its length. Taking Young's modulus to be 13,500 tons per square inch and Poisson's ratio $= \frac{1}{10}$, find decrease in length of the sides of the cross section and the percentage decrease of the area of section.

2. Define bending moment and shearing force and prove that the shearing force vanishes at all points where the bending moment is greatest or least.

Three beams AB, BC, CD are joined together at B and C as shown in the figure. They carry loads at the centres as indicated.

Construct the diagram of bending moments.



- 3. A beam, 80 ft. span and weighing one ton per foot run, carries a rolling load of two tons per foot run, and the rolling load covers a length of 10 ft. Draw roughly to scale the curves of positive and negative shearing force as the load crosses over.
- 4. A concrete foundation 4 feet wide has to carry wall which supports 8 tons per lineal foot including its own weight. Find the depth of the foundation if the concrete weighs 1 cwt. per cubic foot; weight of the earth 1½ cwt. per cubic foot. Angle of repose 30°.

APPLIED PHYSICS

Examiners - {PROF. H. C. CHAKRABARTI, M.Sc., M.A. (CANTAB.) PROF. D. M. BOSE, M.A., B.Sc., Ph.D.

Only THREE questions to be attempted from each half

The questions are of equal value

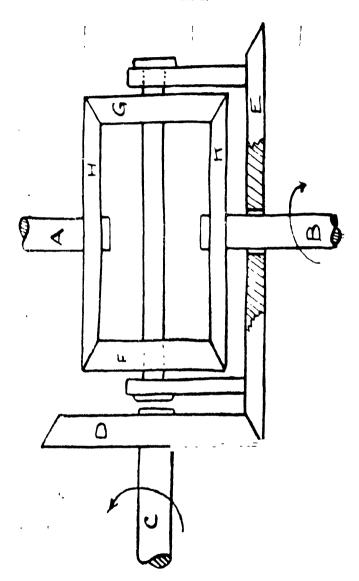
FIRST HALF

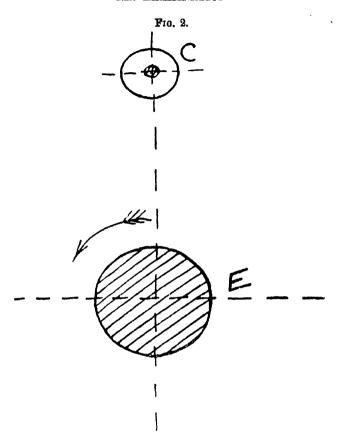
1. Two large parallel plates are separated by a distance d. Calculate the change in capacity per unit area if a slab of dielectric constant k and thickness

 $[\]frac{d}{2}$ is introduced midway between the two plates. Establish the formula you use.

I.E. EXAMINATION

F16. 1.





centre of the shaft. C is to remain at the bottom of its stroke for \(\frac{1}{2}\) sec., then to rise to the top with constant velocity in \(\frac{1}{2}\) sec.; to remain at the top for \(\frac{1}{2}\) sec. and then to fall to its bottom position with constant velocity in \(\frac{1}{2}\) sec. Outline the required shape of the cam plate. Draw the velocity-time diagram and the displacement-time diagram, for the centre of the roller. The travel to and fro of the roller is 1". The minimum distance from the edge of the cam to the edge of the shaft is to be \(\frac{3}{2}\)".

ELECTRICAL ENGINEERING

FIRST HALF

Examiners—{Prof. B. C. Gufta, F.A.I.E. Mr. J. D. CHAUDHURI, B.Sc.,

The questions are of equal value.

1. (i) What is the use of a commutator in (a) D.C. dynamo, (b) D.C. motor?

(ii) Why is it necessary to produce sparkless commutation and how is this effected in (a) dynamo, (b) motor?

- (iii) Give by a suitable sketch the theory of the act of sparkless commutation.
 - 2. Enumerate the principal sources of waste of power in an electric motor.

Current is supplied to a series motor at 100 volts, the resistance of the circuit being 5 ohm. Determine the now r expended in turning the armature when the current is 10 amperes Determine the current when the power thus expended is a maximum. Con pare the values of the electric efficiency in the two cases.

- 3. (i) What are Fleming's right and left hand rules? (ii) How do you change the direction of rotation (a) series motor, (b) shunt motor, (c) compound motor? (iii) Develop the equation for HP and torque in a bipolar motor, using British units. (iv) What happens in a shunt motor when the field is either strengthened or weakened? Explain fully
- 4. (i) Write a short sketch on (a) street illumination, (b) illumination of a large assembly hall, (c) domestic ligh ing.

(ii) Is incandescent lighting likely to completely supersede are lighting in the near future? Give your reasons.

SECOND HALF

The questions are of equal value

Answer THREE questions only

- 1. (a) Represent the following E.M.F 'S by vectors, showing the phase relations between them. Take E_1 horizontally and mark the leading vectors if any 'lead'
 - (1) $E_1 = 100 \sin wt$,

(2)
$$E_2 = 50 \sin \left(wt + \frac{\pi}{4} \right)$$
,

(3) $E_a = 60 \cos wt$,

(4)
$$E_{\bullet} = 2^{\circ} \sin \left(wt - \frac{\pi}{3} \right)$$
.

(b) Two alternating vectors of the same period, and of amplitude 10 and 8 respectively, are found at a certain instant to have the values +5 and -4 respectively and 001 second later their values are +10 and +4.

Find (a) the angle of thase difference,

- (b) the period, assuming this to be greater than '001 second.
- 2. (a) Define Inductance.
- (b) Two bibbins of the same size and shape are wound with different sizes of wire, so that one of them contains thrice as a many turns as the other, the inductance of the bobbin with the smaller number of turns is found to be '008 henry. Find the energy in foot-pounds stored up in the magnetic field of the other bobbin when conveying a current of two amperes.
- 3 (a) Explain the production of Alternating Current with the help of a shuttle armature used in a cycle lighting set. Show by a diagram the flux distribution of such an armature.
- (b) The diameter of the armature of a certain frame is 25" and its length 11". The flux donsity in gap is 60,000 lines per sq. in. How many conductors must we have in series in order to generate 500 volts, when the machine is running at 900 revs. per min.

4 (a) Define power factor and explain the difference between A.C. and D.C.

circuits, discussing how they are affected by power factor.

(b) A 10 H P. single-phase motor works off a 200 volts supply. Its full load efficiency is '85 and power-factor '75. Calculate the full load current.

MATERIALS OF CONSTRUCTION

The questions are of equal value.

FIRST HALF

Examiners — { Mr. R. R. Ghosh B.A., B.E. (Cal.) RAI BAHADUR CHUNILAL SARKAR, B.E.

Only FOUR questions to be attempted from this half.

- 1. Briefly describe Bull's patent trench kiln, touching on each of the undermentioued point :-
 - (a) The construction of the kiln;(b) Loading;

 - (c) Firing;
 - (d The working of the dampers and chimneys.
- How would you test a stone for building purposes? Describe the usual method adopted for quarrying a sedimentary rock.
- What is Portland Cement? To what tests would you subject a consignment of Portland Cement before us ng it.
- 4. Describe the process by which wrought iron is generally prepared from pig iron.
- 5. Explain the torms: base, vehicle, drier, solvent, and pigment. some of the ma erials under each head.

Give general description of applying paint on new doors.

SECOND HALF

Only FOUR questions to be answered.

1. What are the chief characteristics of building stones obtained from the sandstone and from limestone formations? State where they are found in India What is quarry sap?

2. Give the composition of good brick earth. On what does the colour of

bricks depend? How can bright red bricks be obtained?

3. Write short notes, explaining what you understand by lime punning. sand rubbing, stucco plaster, distemper terracotta, and encaustic tiles.

4. Give sketches of tools ordinarily used by the plasteres in Bengal.

5. Describe the process known as Dr Angus Smith's for coating cast ironiron pipes. Give particularly the composition and the mode of application.

DETAILS OF CONSTRUCTION

Examiners - { MR. P. N. BANERJFE, M.A. A.M.I.E. M. TAZFAZUL AHMED.

FIRST HALF

The questions are of equal value.

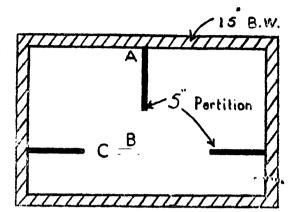
Only FOUR questians are to be answered.

1. Sketch any form of steel or timber caisson (crib) known to you for sinking masonry foundations under water Explain how you will carry out the sinking and state what precautions you will take.

2. What is monolithic partition?

A hall is to be divided into two rooms with a passage in front as shown

in marginal rough sketch by means of monolithic partitions 5" thick reinforced every alternate Sketch three succourse. cessive courses of the brickand 'B' work at 'A' the bonding gaiwoda and reinforcement.



- 3. In the above sketch at the opening C a single leaved panel door 7'-0" \times 8'-0" is to be fixed. The door is to be $\frac{1}{4}$ " thick with raised panels and planted on mouldings. Give working sketches of the chaukat and the door and show how you will fix the chaukat and finish off the sand plaster of the partition against it.
 - 4. What do you understand by steel frame building?

A $15'' \times 6''$ R.S. architrave is to be attached to the flange of a B F, stanchion $11'' \times 11''$ and secondary beams $9'' \times 4''$ are to be attached to its web. Roughly sketch the connections you will propose.

What is a basement floor?

Three sides of a basement room are to be in contact with earth. Roughly show the construction you will propose to make the walls and floor damp-proof.

SECOND HALF

The questions are of equal value.

Questions 5 is compulsory and ANY THREE of the others to be answered.

- 1. Give plans and sections of a terrace roof 6" thick, average, over two layers of tiles $1'-6" \times 1'-0" \times 1"$ placed on $3" \times 3"$ teakwood burgahs supported by R.S. joists $8" \times 4"$ spaced 5 feet apart for a room $20' \times 12'$. The parapet will be 1'.0" high over roof and 1'.3" thick, the supporting walls of the roof being 1'.8" thick on all sides. The cornice will be of 1'.0" projection and $10\frac{1}{4}"$ thick. Describe the method of construction of the roof with details, and show in the section the method of preventing leakage through the joint between the terracing and the brickwords, and show also proper slope for drainage of roof and cornice.
- 2. Sketch a kingpost truss of wooden scantlings of 15 ft. clear span for a corrugated iron roof and give details of joints at the foot and head of the kingpost and at the junction of tie beam and rafters. Also give details of fixing the truss on the brick walls 1'-3" thick.
- 3. Describe the method of excavation of a foundation 5 ft. wide and 4 ft. deep in a very loose soil such as slipping clays. If the layer of slipping clays is deeper than four feet, what is to be done for strengthening the foundation of the building, say, two storied high? Describe the methods of such strengthening.

- 4. Define with sketches: Stringer, Tread, Riser, Style, Lock-rail, Skew arches, Voussoirs, Jambs, String course, Damp proof course, Bedplates, Abutments, Wingwalls, Corbelling, Gradient, and English bond.
- 5. A 20 feet wide pucca road with six feet kutchs berm on each side with side slopes 2 to 1 is to be constructed along an alignment for 1,000 ft. having the following reduced levels of existing ground starting from 0 at every 100 ft.:—

95.0, 98.0, 100.0, 102.0, 105.0, 107.5, 103.0, 100.5, 96.0, 92.4, and 91.0. The formation level of the road is to be 100.0.

Make a longitudinal section of the road and give cross sections at 0, 500, and 900 ft. of the road showing borrow pits, or spoil banks, 6 ft. space from toe or top of slope to edge of borrow pit or spoil bank, metalling 6" thick, double soling, and drains where necessary.

ESTIMATING

(MR. P. B. GHOSH, B.Sc., B.E. Examiner-MR. S. K. CHAKRABARTI, B.E.

The figures in the margin indicate full marks

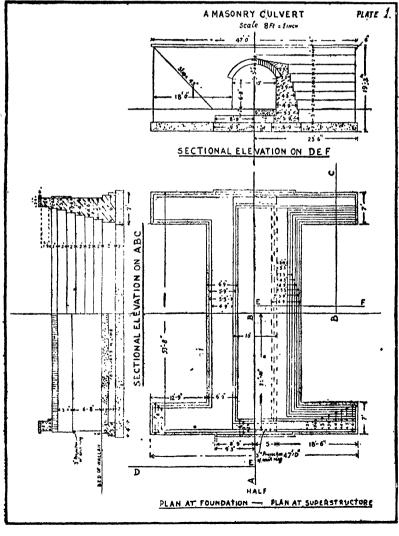
[N. B.—Dimensions not given in drawings should be scaled off]

FIRST HALF

- 1. Calculate the quantities of the following items in the masonry culvert (Plate 1) attached :-
 - Concrete in foundation. (a) Masonry in lime. **(b)**
 - Archmasonry. (c)
 - (d) Boulders in lime.

55 15 10

20



25

Or.

From the cross-section of a dam given in Plate 2 attached, prepare an indent of quantities for bricks, lime, soorkee, cement. sand, ballast required for the construction of a reservoir. The internal dimension of the reservoir is $20' \times 16'$.

The following proportions may be assumed :-

Lime concrete	•••	1	: 2	:	5.
Cement concrete	•••	1	: 2	:	4.
Cement and lime mortar	***		1	:	2.

Or.

(a) From the sketches shown in Plate 3 attached, estimate the secight of cast iron in the—

(i)	Bracket (Fig. 1).	40
(ii)	Casting (Fig. 2)	20
(iii)	Casting (Fig 3)	20
	We of each iron = 0.96 lb ner cub inch	

Wt. of cast iron = 0.26 lb. per cub. inch.

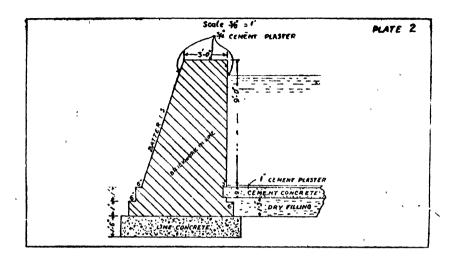
(b) Estimate the cost of making 100 brackets such as shown in Fig. 1, Plate 3 attached.

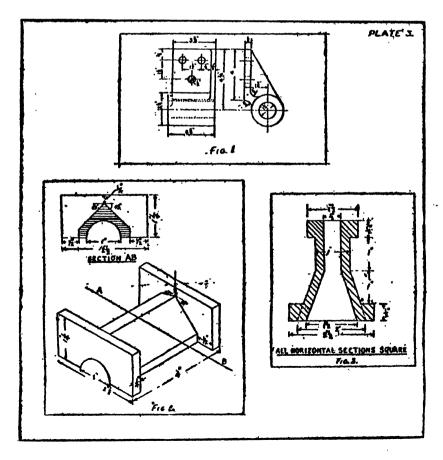
SECOND HALF

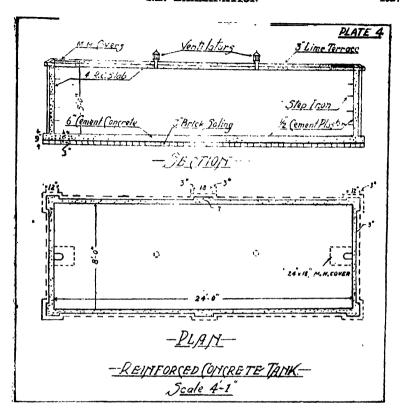
- 1. (a) From the attached drawing (Plate 4) of a reinforced concrete ground reservoir for a water supply scheme, find out the quantities of the following items:—
 - (1) Brick soling;
 - (2) Cement concrete in foundation;
 - (3) Cement cencrete in reinforced concrete walls and roof;
- (4) $\frac{1}{2}$ cement plaster in walls both inside and outside, also in floor and ceiling;
 - (5) 3" lime terracing on roof of tank.
 - (b) Find out the cubic contents of the reservoir in gallons.

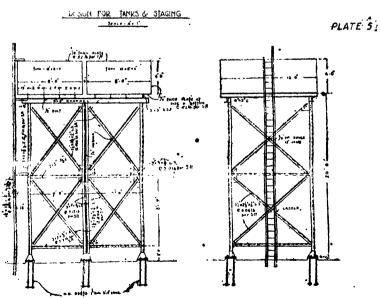
Οr

- 2. (a) From the attached drawing (Plate 5) of mild steel tanks and 75 staging for a water supply scheme, find out quantities of the following items:—
 - (1) Mild steel work in cwts. in the angles of the staging.
 - (2) Mild steel work in cwts. in plates of the tanks,
 - (b) Find out the capacity of the overhead tanks in gallons. 25









SURVEYING

Examiners— { Prof. C. V. Miller, A.C.G.I., B.Sc., A.M.I. Struct E. Rai Bahadur G. C. Das.

The questions are of equal value

No more than FOUR questions need be attempted from each half

FIRST HALF

- 1. Distinguish between "compensating" and "cumulative" errors in chaining.
- A field was measured with a 100 ft. chain that was 0.34 of a link too long. The area tous found was 77 acres. What is the true area?
- 2. Two points A and D are connected by a traverse survey ABCD and the following records are obtained. AB=118 feet BC=166 feet, CD=192 feet. Angle $ABC=128^{\circ}35'$, angle $BCD=57^{\circ}0'$. Assuming that the whole circle bearing of $AB=183^{\circ}30'$, determine—
 - (i) the lat tude and departure of D relatively to A;
 - (11) the length 4D;
 - (iii) the angle BAD
- 3. A series of offsets were measured from a straight line to a river bank at the intervals given below. Find (sig Simpson's rule) the area in square feet between the line and the river bank. All the measurements are in feet.

Offsets: -0, 7, 9, 8, 5, 2, 3, 7, 9, 11, 15, 20, 13, 5, 0.

- Distances along line:—0, 100, 200, 300, 400, 450, 500, 600, 700, 725, 750, 775, 800, 900, 1000.
- 4. In taking oundings from a boat, its position is fixed by observations taken to these s atoms A, B and C on the shore. The lines AB and BC have been measured by the following traverse: A to B, 542 feet bearing 70°14'; B to C 714 feet bearing 110°33'. From the boat in a certain position P, the angles APB and BPC wer read as 32°16' and 44°21' respectively. Determine the distances AP, BP, and CP.
- 5. The base of a roadway cutting is 32 feet in width, the depth of formation level is 34 feet below the entre it e of the roadway the side slopes are 12 to 1, and the surface of the ground talk lin 8. Calculate the half breadths for the cutting. At a distance of 1 th in along the centre line the depth of formation level is 28 feet, and at a distance of 2 chains it is 20 feet. Find the volume of earth work to be removed.
- 6 A pocket sextant is set to zero reading, but the instrument is not in perfect adjustment. Describe the relative positions of an object and its image as seen through the sextant. Show by a sketch the paths of the rays and the mirrors which reflect the object seen. How would you adjust the sextant?

SECOND HALF

- 1. (a) Describe with sketches one of the three kinds of level you have actually used. What are their reportion advantages?
- (b) escribe the adjustment of a level so that the bulb remains in the centre of its run in every position of the telescope

50

2. The following are the readings of a level, show how to complete the level book (1) by "Rise and Fall" sy-tem, (2) by the "collimation method." What are the advantages and disadvantages of the two system.?

Back sight.	Inter sight.	Fore sight
4·16 3·57		0°23
0.02	1.16	2:98 4 06

The R. L. of the last reading is 144.99.

8. Draw up a complete indent for articles and instruments required for a detailed road project about 20 miles long in an undeveloped country. What should be the approximate cost per mile?

4. Give a sketch of the top of the stand showing the arrangement for

adjusting the theodolite bodily over any desired point.

5. Explain how you would lay out, by an ordinary theodolite, an exact straight line about 6 miles long. What are the precautions you would take, as your work progresses to see that you are laying a perfect s raight line?

6. What is the usual formula for calculating the tangents of a curve? Explain what you mean by a 2° curve in a railway line. How would you lay it when the point of intersection is inaccessible? What is the radious of a 10° curve? How do you arrive at it?

DRAWING

Examiners-- { MR. T. A. GARLAND. RAI SAHEB A. K. MITRA. MR. P. B. GHOSH, B.Sc., B.E. MR. C. R. COMPELAND, A.M.I.E.

FIRST HALF

The figures in the margin indicate full marks.

1. Using a scale of four feet to an inch, make a Jimension d drawing showing a part outside elevation and part sectional elevation on ABCD of the building shown in Plate 1, attached.

Use your own judgment in proportioning those parts not shown, or

not dimensioned in the plate.

2. (a) Draw a dimensioned plan and elevation of one turn of a spiral staircase suitable for a dwelling house.

(b) By means of neat dimensioned sketches, drawn to scale, show the details of construction of any form of stairway and handrail with which you are familiar.

SECOND HALF

The figures in the margin indicate full masks

[Note.—Question 4 must be attempted, but one only of Questions 1, 2, and 3 need be done.]

Explain briefly the following:—

(a) Why a belt pulley is "crowned," i.e., made convex on the face.

(b) The effect of too much curvature, and illustrate by means of a sectional sketch of rim and belt.

Or,
2. (a) Name four different means of obtaining a "Mechanical advantage."

50

- (b) Give a short description of the principles of one with any sketches necessary to illustrate same.
- 3. What is a "Double beat" stop value? Give a rough sketch, showing steam inlet and outlet, and explain its advantage over an ordinary dead lift single valve.

50°

100

4. The drawing (Plate II) shows two views of a plummer block.

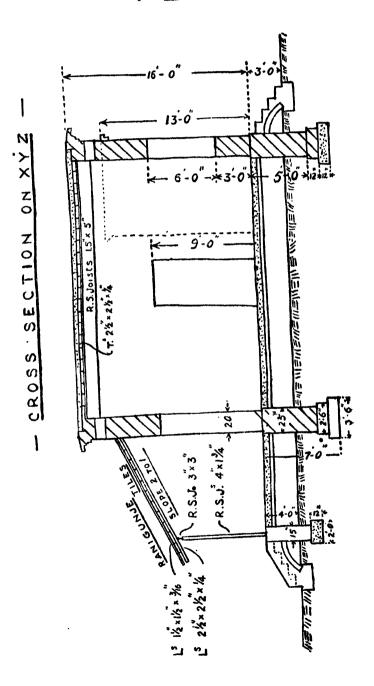
Draw a plan, half outside and half in section through "AA."

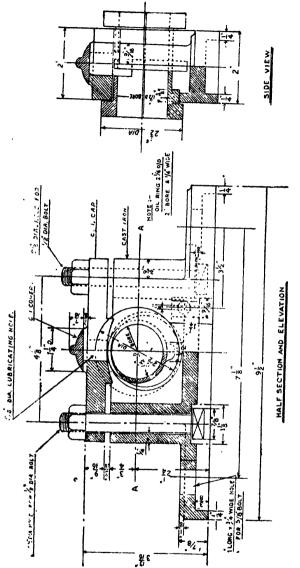
Draw to half size and show a few main dimensions.

Note.—Do not draw views supplied.

60 ∢

PLATE I





PLAN VIEW ONLY TO BE DRAWN.
LEFT HALF IN SECTION THROUGH "AA".
RIGHT HALF, OUTSIDE VIEW.

SELF OILING PLUMMER BLOCK.

PLATE II.

B. E. Examination,

MATHEMATICS

Examiners— MR. J. M. Bose, M.A., B.Sc. Prof. N. C. Ghosh, M.A.

(THEORIES)

To attempt SIX questions only, THREE from each half.

The questions are of equal value.

FIRST HALF

1. When is a series said to be (i) convergent, (ii) divergent, or (iii) semiconvergent? Illustrate your an-wers with simple examples.

Test any two of the following series as to convergency: -

(a)
$$1 + \frac{1}{2^2} + \frac{1}{3^4} + \frac{1}{4^2} + \frac{1}{5^4} + \dots$$

(b)
$$\frac{1}{2}$$
 + $\frac{2}{3}$ + $\frac{3}{4}$ + ... + $\frac{n}{n+1}$ +

(c)
$$\frac{1}{m} + \frac{1}{m+1} + \frac{1}{m+2} + \frac{1}{m+3} + \dots$$

where m is any number < 0.

For which values of x is the following series convergent?

$$x-\frac{x^2}{2}+\frac{x^3}{3}-\frac{x^4}{4}+\frac{x^5}{5}-\frac{x^6}{6}+\dots$$

2. Explain how determinants are of use in the solution of a system of linear equations.

Examine if the following equations are consistent if so, find the values of x, y, z which satisfy them all.

$$4x-3y+2z=4.$$

$$x+7y-5z=0.$$

$$3(x+y)-4z+3=0.$$

$$2(x-1)-3(y-3)+\frac{1}{2}(z-9)=0.$$

3. Enunciate and prove De Moivre's theorem for a positive integral exponent.

Find the value of $(2 \cos 40^{\circ}+3\sqrt{-1} \sin 40^{\circ})^{\circ}$ in the form A+iB, expressing A and B numerically correct to three decimal places.

4. State the exponential values of $\sin x$ and $\cos x$. Starting with these values as definitions for $\sin z$ and $\cos x$, prove that for all values of x, real or imaginary.

(i)
$$\sin^9 x + \cos^2 x = 1$$
;

(ii) $\cos^2 x - \sin^2 x = \cos 2x$.

Express cos $(\alpha+i\beta)$ where α and β are real, in the form A+iB (A and B being real).

5. (i) If
$$u = x^* f\left(\frac{y}{x}\right)$$
, prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = nu$.

(ii) If
$$v = \tan^{-1} \frac{x+y}{r}$$
, where $r^2 = x^2 + y^2$, find the values of $\frac{\partial v}{\partial x}$, $\frac{\partial v}{\partial y}$, and

verify that
$$x \frac{\partial v}{\partial x} + y \frac{\partial v}{\partial y} = 0$$
.

SECOND HALF

1. Prove that

$$f(D)Xe^{a} = e^{ar}f(D+a)X$$

where X is a function of x and $D = \frac{d}{dx}$.

Show how to find

$$\frac{\sin px}{aD^2+bD+c} ,$$

where p, a, b, c are constants.

2. A condenser of capacity U is disclarged through a circuit of self-induction L. Establish the differential equation of discharge and integrate the equation.

If the above circuit forms the primary of a transformer, establish the differential equations for currents developed in both circuits, the mutual

induction being M.

3. Integrate the following:-

(1)
$$(xy+x^2) \frac{dy}{dx} = \sqrt{1-y^2}$$
.

(2)
$$\frac{d^2v}{dr^2} + \frac{1}{r} \frac{dv}{dr} = 0.$$

(3)
$$\frac{d^2y}{dx^2} + x^2y = ax^2 + b \sin px$$
.

4. Establish Fourier's Theorem.

Prove that the bending moment across any section of a freely supported beam with a concentrated load W at x=a is given by

$$M = \frac{2Wl}{\pi^2} \left(\sin \frac{\pi a}{2} \sin \frac{\pi x}{l} + \frac{1}{2^2} \sin \frac{2\pi a}{l} \sin \frac{2\pi a}{l} + \dots \right).$$

Find a series for the deflection at any point.

MATHEMATICS

(APPLICATIONS)

All questions are of equal value

FIRST HALF

Not more than Four questions to be attempted

1. A particle moves in a siraight line under a retardation kv^{*+1} , v being the velocity at any time t. It it starts when t=0 with a velocity V show that the space s described in time t when the velocity is v is given by

$$kt = \frac{1}{n} \left(\frac{1}{v^n} - \frac{1}{V^n} \right),$$

$$ks = \frac{1}{n-1} \left(\frac{1}{v^{n-1}} - \frac{1}{V^{n-1}} \right).$$

2. A train of weight W lb. is moving at V feet per second on the level, is pulled with a force F lb. against a resistance R lb. Show that as the velocity changes from v, to v, feet per second the distance in feet described by the train is

$$\frac{W}{g} \int_{v_{\bullet}}^{v_{1}} \frac{r dv}{F - R}.$$

If W=300 tons, R=2160+15v, show that the distance described in slowing down on the level from 45 to 20 miles per bour with the power shutoff is about 537 feet.

$$[\log_{\bullet} 10 = 2.303].$$

8. Show that the principle of energy is satisfied in the case of a projectile under gravity, the resistance of the air leng neglected.

A lattle-ship is steading ahead with a velocity V. A gun is mounted on the battle-ship so as to point stinglet backwinds, and is set at an angle of elevation a. If r is the velocity of projection relative to the gun, show that the range is

$$\frac{2v}{g}\sin \alpha(v\cos \alpha - V),$$

also the angle of elevation for maximum range is

$$^{\operatorname{cc}8^{-1}}\,\left\{\mathit{V}+\sqrt{\mathit{V}^{\,2}+8\mathit{v}^{\,2}})\, \middle/ _{4\mathit{v}}\right\}.$$

4. Deduce the conditions of equilibrium of a system of coplanar forces acting on a body.

Two heavy beams AC, BC smoothly bringed together at C are placed with their ends A and B on a rough horizontal plane, the plane of the teamshein, vertical. Find the conditions that the structure may slip at A or B.

5. Discuss the equilibrium of a heavy string on a rough curve in a vertica plane.

A rope passing round a fixed rough vertical circle has a weight of 1,000 lbs. attached to one end and hanging vertically. Find the minimum affort at the other end of the rope which will lift the weight, the angle between the two extreme points of the rope in contact with the circle being 120° and the coefficient of friction between the rope and the circle is 125.

Neglect the weight of the rope.

$$\begin{bmatrix} \pi \\ e^{\frac{1}{12}} = 1.299 \end{bmatrix}$$

- 6. Write short notes on the following :-
 - (i) The principle of virtual work.
 - (ii) The principle of energy.

SECOND HALF

Not more than FOUR questions to be attempted

1. A rigid body moves parallel to a fixed plane the component velocities of its centre of gravity being u, v and its angular velocity ω . Find an expression for its angular momentum as d kinetic energy

Find the kinetic energy of a four wheeled waggon having equal wheels each of mass m and radius of gyration k, the mass of the rest being M and moving with a velocity v.

2. A body is set in motion by a given couple on a rough ground (μ) . Investigate its subsequent motion.

The distance between the front and tear wheels of material 12 feet. The vertical line from the C.G. divides it in the ratio 2:1. The height of the centre of gravity is 3 feet and the coefficient of road friction is $\frac{1}{4}$. Prove that it cannot have an acceleration more than about $\frac{5}{4}$ feet per sec. per sec.

3. Determine the principal axes at the centroid of either a right angle section $6'' \times 4'' \times \frac{1}{2}''$ or a zed section $10'' \times 5'' \times 1''$, showing clearly which is the major axis.

4. A cylindrical boiler having hemispherical ends is filled with water. The diameter is 6 feet and the total length is 15 feet. If the axis is horizontal prove that the total thrust is 5,296 lbs. The weight of one cubic feet of water is 62.5 lbs.

If the thickness of the boiler be neglected in comparison with other dimensions and the internal steam pressure he 100 lbs. per square inch, find the principal-stresses at any point

5. Obtain an expression for the stability of a floating body.

Prove that a circular cylinder floating with its axis horizontal will be in a stable equilibrium if its length exceed the breadth at the water line section.

6. Prove that the fundamental frequency of a beam simply supported at its extremities are given by

$$n_0 = \frac{\pi}{2} \sqrt{\frac{gEI}{wl^4}}.$$

Prove also that the deflection is given by

$$y = A_1 \sin \frac{\pi x}{2} \sin 2\pi n_0 t + A_2 \sin \frac{2\pi x}{l} \sin 8\pi n_0 t + \text{etc.}...$$

What must be the initial condition which will enable you to determine A_1, A_2, \ldots ?

TECHNICAL CHEMISTRY AND METALLURGY

THEORETICAL PAPER

Examiners - { Prof. N. N. Sen, M.Sc. (CAL.), A.I.C. DR. A. KARIM.

[N B.—Not more than THREE questions are to be attempted in each half.]

FIRST HALF

The questions are of equal value

1 Write short notes on the following:-

Case hardening; Normalising; Reculescence; Ferromanganese; Phosphor bronze; Nichrome.

Or,

Give a trief account of the materials and plants necessary for the manufacture of aluminium. State the approximate composition and properties of an aluminium alloy suitable for (a) castings, (b) forgings

2. Portland cement, gypsum cement, and lime being available for use as plastering materials, state the various considerations that may weigh with you in selecting one for any particular purpose to the exclusion of the other two. Discuss the esistance of these materials to the action of (a) rain and river water, (b) sea water, (c) sewage water, (d) frost, and (e) fire.

 Or_i

Sketch a gas-producer and give the thermochemical reactions that take place during the process of making producer gas. Briefly indicate the special advantages of using gaseous fuel

3. Draw the iron-carbon equilibrium diagram and show what use can be made of this diagram for the proper heat-treatment of various grades of carbon steels.

Or.

Calculate the volume of air in cubic feet theoretically needed for burning one ton of coal analysing: C 7)%; H 5%; O 7%; N 2%; S 1%; Ash 10%; Moisture 5%. Also calculate the percentage composition by volume of the products of combution in the dry condition. [Air contains 23% O by weight and one cubic foot of dry air weights 0.08 lb. Molecular weight of a gas in ounces occupy 22.4 cu.ft. H=1, C=12, O=16, N=14, S=32.]

1. Name the chief scale-forming impurities that are usually present in boiler water, and give the reactions that are responsible for the formation of scales. Discuss the action of various substances that are used for softening boiler-water. Why a e boiler scales objectionable?

SECOND HALF

The questions are of equal value

1. Differentiate, with reference to their compositions and characteristics, the following grad s of bricks: (a) Building bricks, (b) Fire bricks, (c) Paving bricks, (d) Guzzed bricks, and (e) Lume-sand bricks.

Or,

State, giving your reasons, the type of furnace you would use for carrying our each of the following metallurgical processes: (1) roasting of copper pyrites, (2) extraction of zinc, (3) smelting of iron ore, (4) cupellation of argentiferous lead.

2. Give an account of the principal commercial forms of iron, their methods of production, and their special uses.

0r

Enumerate the principal classes of fuels and indicate briefly the purposes for which each class is mainly used.

3. Give a brief account of two of the various theories that have been advanced to explain the corrosion of iron and steel. Write what you know regarding the functions of paint as a preventive against corrosion, and state the ingredients that are usually present in a ready-made paint for use on iron or steel structures.

Or,

Classify lubricants according to their uses and discuss the essential properties of each class.

4. Assuming that Red Lead and Litharge have been used on lead grids as chief ingredients for the making of positive and negative plates, respectively, of a lead accumulator cell, give the chemical reactions taking place during the process of (a) forming, (b) discharging, (c) re-charging, (d) sulphating, of the plates.

PRACTICAL PAPER

[N. B.—The number of the solution should be carefully entered in the answer book]

- 1. Estimate (a) gravimetrically the total sulphate, (b) volumetrically the free sulphuric acid present in the given solution. Express your results as SO₂.
 - 2. Submit your practical note-books.

GEOLOGY AND MINERALOGY

FIRST HALF

The figures in the margin indicate full marks

- 1. Enumerate the crystallographic systems and discuss one of these 33 in detail.
- 2. Discuss the question of the stability of hill slopes in general. What 33 particular features would you look for in this connection? Illustrate your answer with sketches.
- 3. Describe with sketches syncline, overlap, joint-plane, reversed fault, 33 unconformity, cleavage.
- 4. A band of limestone is seen to crop out in a river section and to 34 strike E and W. At a point 450 feet due S a borehole penetrated the band at a depth of 62 feet, the top of the borehole being 12 feet higher than the limestone outcrop.

At what depth will the limestone be met in a borehole situated 1,000 feet due SW of the first borehole, assuming the two to be at the same datum level?

The figures in the margin indicate full marks

THREE questions only to be attempted one of which must be either 4 or 5.

- 1. Describe marine ercsion. What method would you use, as an 30 engineer, to combat marine erosion? Describe the formation of bars and spits. To what engineering use may they be put when at the mouth of a large estuary?
- 2. Compare the types of vulcanism typified by the Deccan traps and 30 Vesuvius. What industries may be found in some volcanic areas?
- 3. Describe the phenomena accompanying earthquakes. What general 30 principle should guide the erection of buildings in an area subjected to severe earthquakes?
- 4. What are the three main divisions into which rocks are classified? How are they formed in Nature? Describe two rocks used for engineering purposes from each of the three divisions (six in all), noting the properties which make them suitable for that purpose.
- 5. A tunnel is being driven north in rocks striking E-W and dipping 15° to the south. It meets in succession the following rocks: glacial drift (100 feet); massive sandstone (400 feet); slates thickly impregnated with marcassite and alum (700 feet); rubbly and close-jointed basalt (300 feet). What precautions in each would you take for the safety of the tunnel? Which would be the hardest to tunnel through, and why? How would you take advantage of the dip to help you in blasting through the sandstone and slate?

APPLIED PHYSICS

THEORY PAPER

Examiners - { PROF A. C. CHAKRABARTI, M.Sc. PROF P. N. GHOSE, M.A., PH.D., Sc.D.

Only THREE questions to be attempted from each half

The questions are of equal value

FITST HALF

- 1. What device would you adopt for sorting out and measuring accurately the wavelength of the radiations from a mercury vapour lamp?
- 2. Define Lux and Mean Spherical candle power with reference to a source of illumination. Explain the principle of Rousseau diagram in ascertaining the m. s. c.p. of a lamp.
- 3. Explain the use of cathode rays for studying the wave form of high frequency alternating electromotive force.
 - 4. Explain the use of a thermionic value as-
 - (a) A.C rectifiers.
 - (b) Wireless detectors.
 - (c) Amplifiers.

- 1. "X-ray is an atomic phenomenon." Justify this statement.
- 2. Why is Ammonia regarded as a suitable working substance in a vapour compression refrigerator? Compare the efficiency of a machine working with Ammonia with that of another working with carbon-dioxide.
 - 3. Explain with schematic diagrams the working of an Ice making plant.
- 4. Destribe and explain a method of measuring temperatures higher than. 1500°C.

APPLIED PHYSICS (METROLOGY) PAPER

Examiners— { PROF J. RIFFKIN MR. N. COOKE, B Sc.

The questions are of equal value

FIRST HALF

Attempt THREE questions only from this holf.

1. Explain the terms Bilateral and Unilateral as applied to a system of limits, and indicate the advantages claimed for each method.

In the manufacture of a component the total tolerance is 10 units. How much of this tolerance does the worker really get? Account for the remainder.

- 2. With the aid of neat sketches, select a representative example to illustrate the use of the following:—
 - (i) a sine bar prec sion block.
 - (ii) the Hirth minimeter.
- 3. You are required to measure accurately a given tapered plug gauge. Describe clearly and concisely 'i) the apparatus you would use, (ii) the procedure you would adopt.

Give neat sketches where necessary.

t. Sketch a micrometer depth gauge and show a setting of 0.667 inch. Do not destribe the mechanism but insert index letters with a key to show the important details.

Explain how a vernier may be embodied on a micrometer to read to

0.0001 inch.

SECOND HALF

Attempt THREE questions only

- 1. Make clear sketches of the mechanism of an "Amea" dial gauge. Explin the functions of the various parts, referring to your sketches by index letters. What arrangements are made to eliminate the effects of "backlash?"
- 2. Describe any process which can be employed for the manufacture of slip gauges.
- 3. Describe, with the aid of sketches, the ordinary work-shop process for measuring the effective deameter of an outside serew thread, giving the theory of the calculations. What assumptions are made in these calculations, and what errors do they involve?
- 4. Describe any method by which the radius of a concave radius gauge may be accurately measured. Derive any tormula necessary to calculate the result from the observations made.

APPLIED PHYSICS (METROLOGY) PRACTICAL

Examiners - { PROF. J. RIFFRIN. MR. N. COOKE, B.Sc.

The examiners will detail the particular test or tests you are required to attempt.

Submit your results according to the following scheme; give neat sketches where necessary:—

- (a) Object of the test.
- (b) Apparatus used.
- (c) Procedure adopted.
- (d) Calculations.
- (e) Observations and deductions.
- 1. Determine the diameters of the two holes in the given rectangular block: Determine also their relative positions with reference to the faced edges of the block and hence find their distance apact.
- 2. With the aid of the apparatus supplied, measure accurately the given tapered plug gauge at four diameters. Il ustrate graphically any variation of the generator from the straight line tangential to the two extreme measured diameters in an exial plane.
- 3. With the aid of the sine bar precision block supplied determine the angles between the faces of the given quadrangular plate gauge.
- 4. Determine the radius of the given profile gauge. Is the contour truly' circular?
- 5. Set the five buttons in a circle of 4 inches diameter on the given plate in which there are five approximately located tapped holes. You are not required to locate the centre of the circle.
- 6 The gauge supplied is a receiver for a machine-gun component. Find the limiting dimensions of the gauge points from the centre lines and other reference faces of the component. A rejected component is supplied, for guidence only.

ROADS AND RAILWAYS

Examiners - { Mr. K. P. Modwel. B.Sc. Mr. J. N. Dasgupta.

FIRST HALF

The questions are of equal value.

ANY POUR questions corry full marks.

1. What are the different kinds of sleepers in use in India? Describe merits and demerits of each kind.

What is the right way for laying treated wooden sleepers in the tract?

2. What are the different classes of Surveys for a Project?

If you are out on a reconcaissance survey, on what points would you

make notes in the field?

3. What are the chief resistances which a train in motion has got to

encounter and how are they calculated?

If the ruling gradient is 1 in 75 find the compensation for curvature for a 3 degree curve (a) for broad gauge, (b) for metre gauge.

66-31

- 4. (a) What are the advantages of electrifying railways for suburban traffic ?
- (b) Draw a dimensioned sketch of a simple wayside station yard showing how isolation of the loop and a goods siding is secured.
- 5. Explain broadly what are the various methods adopted for renewing girders or rebuilding Railway bridges under traffic.
- 6. What points would you bear in mind when designing a large sectional yard? What factors would govern the length of reception, sorting and marshalling sidings?

The figures in the margin indicate full marks.

FOUR questions only need be attempted.

- 1 (a) What is a "Ruling Gradient?" What are the points to be considered in fixing it for a road? State briefly the effects of gradient on a road. What is the maximum gradient desirable on any metalled road intended for wheel traffic?
- (b) What is "Camber" in a road and with what object is it provided? What are the objections to an excessive camber on a road?
- 2. Describe, in detail, the method of laving and consolidating a 50 waterbound maradam road surface, with sketches if necessary. State briefly what are the chief causes of failure of waterbound roads.
- 3 What requirements would you expect from an Ideal Road 50 Pavement?

Sketch, with dimensions, plan and sections of a Reinforced Concrete Road you may have visited, with short notes on the method of its construction.

4. What are the different methods of paving footwalks in Calcutta Roads? Describe the method of laving one of them, noting its advantages or disadvantages.

.5

- 5. Show by sketches the usual cross sections of-
 - (a) First class trunk road or highway,
 - (b) A hill-road 20 ft. wide suitable for ordinary traffic.
 - Give general details of arrangement for drainage.
- 6 Show by a rough sketch the plan and sections of an ordinary type 50 of road masonty arch culvert. 10 ft. span for a road with 20 ft. crest, and 12 ft. height of bank, in the plains like Bengal.

IRRIGATION AND SANITARY ENGINEERING

FIRST HALF

Examiners— { RAI BAHADUR A. N. DAS, B.E. MR. F. C. GRIFFIN.

The figures in the margin indicate full marks.

Only FIVE questions should be attempted from the First Half Paper.

1. What are the different factors for consideration in determining 40 the section and bed slope of an irrigation canal?

2. Give a rough sketch of the section of a weir wall of the Indian 40 type. How do they fail?

B.E. EXAMINATION	1048
3. Give a rough sketch of a lock for a navigation canal. 4. How are tides generated and propagated in a river and what are the factors which influence their range?	40 40
5. How is the section of a flood embankment determined?6. Give a rough sketch of a drainage sluice.	4 0 4 0
SECOND HALF	
The figures in the margin indicate full marks.	
THREE questions only to be attempted.	
1. Explain the following terms, with sketches where necessary:— Cone of depression, water seal, aqua privy, artesian well, infiltration gallery, back drop, shrouding, boning rod.	80
2. Compare the relative advantages and disadvantages of a mechanical filter and a slow sand filter, stating their usual rates of filtration. Describe by means of a sketch the construction and action of a slow	60
 sand filter, explaining what is meant by "filtration head." You are directed to design a surface drainage scheme for a small town. How would you go about it, and what are the principles involved? What is "run-off," and how is it estimated? What should be the discharging capacity of a drain serving a built. 	60
up area of 1.35 acres in a town in Lower lengal? Sketch its cross section.	
• 4. In a modern sewage works, the sewage is separated at an early stage into 'a) tank effluent, and (b) slurge, by means of settling or sedimentation tanks. Describe with sketches the different methods available for the disposal of both (a) and (b).	60

APPLIED MECHANICS

Examiners- { Prof. C. V. Miller, A.C G.I. Mr. J. Chamber, B.Sc., A.M.I.C.E.

FIRST HALF

The questions are of equal value.

Only FOUR questions need be attempted.

1. A 14" × 14" reinforced concrete pile, 50 feet in length, is to be slung in a horizontal position by two chains. Calculate the positions of the slings from the ends of the pile so that the maximum bending moment on it is the least possible.

2. A uniform rolled steel joist of 50 feet span, simply supported at the ends, carries a load which increases uniformly from 1 ton per foot run at the left hand support to 8 tons per foot run at the right hand support. Find (i) the position and magnitude of the maximum bending moment, (ii) the slope, and (iii) the deflection of the girder at a point 20 feet from the left hand support. Take E as 12,400 tons per square inch and I about the neutral axis as 1,777 irch units.

3. The plate girders of a bridge of 80 feet clear span (effective span 84 feet) are placed 8'-0" centre to centre. The depth of each girder is 7'-6". Design a suitable end sway frame for a wind pre-sure of 40 lbs per square f ot when a train is on the bridge. An allowance for racking forces of 40 lbs, per foot run must be made in addition to the wind pressure.

4. If the areas and lengths of the members comprising the framed girder shown in Figure 1 are as given in the table, find the true deflection of C in magnitude and direction when the end A is fixed and the end B is supported on rollers which allow B free mution laterally.

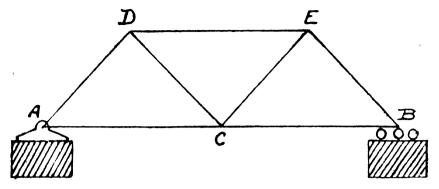


Fig: 1

Member.	Area in square inches	Length in feet.
AD	0.2	7
DE	10	10
EB	0.5	7
BC	15	10
CA	1.2	10
EC	2.0	7
DC	2.0	7

5. A two tier grillage foundation has to carry a load of 140 tons. The steel column base is 40 inches square. If the safe load on the ground is 1 ton per square foot, find the sizes and number of rolled steel joists in each tier and draw dimensioned sketches of the foundation.

Size in inches.	Area in square in hes.	<i>I_X</i> .	I_{Y} .
25" × 5"	12:35	428·21	11 '94
14" × 6"	13:53	440·62,	21 '58
12" × 6"	14:99	365·01	27 '14
10 × 5	8:38	142·00	9 '50
8 × 5	7:80	87·00	9 88
7 × 4	4:71	39·22	3 '41
6 × 3	3:53	20·23	1 '34
5 ×3	8·23	13.62	1 46
4 ×3	2·79	7.52	1 28

6. The portal bracing of a lattice girder bridge is shown in Figure 2. If a load of 12 tons acts he rizontally on the joint E, find the force in magnitude and kind that acts in member CD when the feet A and B of the bracing are assumed (1) jointed, (2) fixed.

Take $y = \frac{d}{2} \left(\frac{d+2h}{2d+h} \right)$, where y is distance in feet of the point of contraflexure from the foot of the bracing for the case when it applies, and d and h have their usual significances.

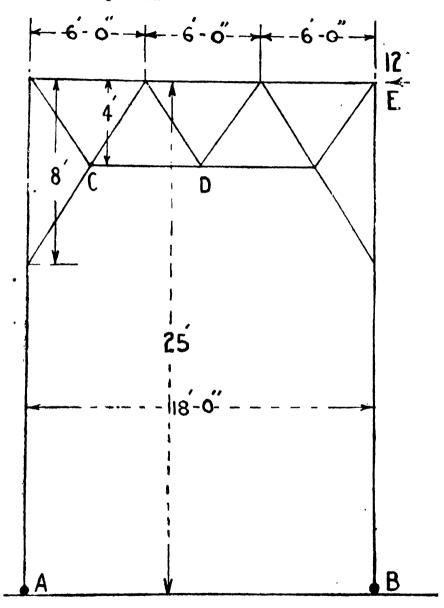


Fig: 2

The figures in the margin indicate full marks.

Questions 1 and 2 compulsory.

Only FOUR questions to be attempted.

- 1. A reinforced concrete column 20" × 28" rigidly fixed at the bottom 50 carries—
- (a) a direct load of 5 tons,and (b) is subjected to a bending moment of 60 ft. tons.

Assuming-

Weight of reinforced concrete = 150 lbs. /c. ft.,

Weight of earth=120 lbs. /c. ft.,

Depth of foundation below ground level=4 ft.,

design a reinforced concrete footing so that the maximum intensity of pressure does not exceed 1.25 tons/sq. ft.

0 4010 200 000124 2 40 10 10 17 19 10 10			
Stress in steel not to exceed		•••	16,000 lbs./□"
Compressive stress in concrete			600 lbs./□"
Slear stress in concrete	•••	•••	60 lbs./□"

- 2. ACDEB is a continuous beam of 4 spans. AC=50 ft.; CD=30 ft.; 50 DE=20 ft.; EB=40 ft.
- (a) Spans AC and DE are loaded with a uniform load of 1 ton per ft. run, spans CD and EB are loaded with a uniform load of 2 tons per ft. run. I raw bending moment and shearing force diagrams. State maximum values.
- (b) Spans AC and DE loaded as in (a) but spans CD and EB unloaded. Draw bending moment and shearing force diagrams. State maximum values.
- 3. A parabolic arched rib has a span of 50 ft. and a rise in the centre of 10 ft.; it is hinged at the centre and at the springings and carries a uniform load of 0.6 ton per foot run over the right half of the span. Determine the normal thrust and the shearing force at each of the three hinges, and also the bending moments at points midway, measured horizontally, between the springings and the centre.

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50

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What is the bending mement when the complete span carries a uniform load of 0.6 ton per ft, run?

4. (a) A stanchion fixed at both ends is acted upon by a couple μ at point C distant nL from one end; derive an expression for the bending moment at the ends and draw bending noment diagrams for the following cases:—

(1)
$$n=\frac{1}{2}$$
, (2) $n=0.211$.

- (b) Find the load which will cause an extreme compressive stress of 21 tons per sq. inch in a stan high whose external area is 53:52 sq. ins., least radius of gyration 4.5 inches, length 12 ft., and freely hinged at the ends, if the depth of the section in the direction of the least radius of gyration is 16 ins., and the deviation of the load from the centre of the cross section is 1 inch in the direction of the 16 inch depth. E=13,000 tons per sq. inch.
- 5. A retaining wall, trapezoidal in cross section, 24 ft. high and 8 ft wide at the base, has a vertical face and a batter of 1 in 12 at the back. Find, according to Rankine's rule, how far from the centre of the base the resultant thrust passes for herizontal filling to the level of the top of the wall, if the angle of repose is 45°, weights of earth filling 120 lbs., masonry 150 lbs. per cubic ft. Assuming uniformly varying intensity of stress in each case, find the extreme values of the normal unit stress across the base of the wall.

6. A reinforced concrete beam of Y shape has the following 50 imensions:-

Breadth of flange 40 inches; thickness of flange 4 ms.; depth of web 18 ins; thickness of web 10 ins.

The result remaint consists of six \$\frac{3}{2}\] round steel bars. placed with their centres 3 inches from the bottom edge of the web.

If the working stress in the concrete is not to exceed 600 lbs./", and if the value of Young's modulus for sivel in 15 times that for concrete, determine the load per ft. run this beam could support on a 3) ft. span

Discuss the validity of any assumptions you make; describe the precautions which have to be adopted in making such a beam, and state what other reinforcement you would consider desirable.

HYDRAULICS

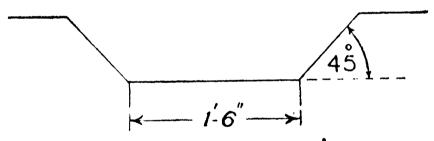
Examiners— { Prof. C. V. Miller, A.C.G.I. MR. BANKILAL SUBERVAL, B.Sc.

The questions are of equal value.

FOUR questions only need be attempted from EACH half.

FIRST HALF

1. Find the quantity of water that well flow over the notch shown in the figure when the head over the sill is 3 inches.



- 2. State in general terms the passure produced by a jet of water acting on a bucket of a Petton wheel, and show that the efficiency of a Petton wheel is a maximum, neglecting frictional losses, when the velocity of the cups equals half the velocity of the jet. Determine the heree power developed in such a wheel when 14 cubic feet of water per second flows through a nozzle of 12 square inches, the efficiency being taken as 77%.
- 3. A pump working 8 hours per day has to lift water from a well and deliver it into an one head service reservoir. The level of the water in the well is 23 feet below the level of the centre of the pump, and the mouth of the inlet pipe into the service reservoir is 140 feet above the centre of the pump. The quantity of water to be lifted per diem is 500,000 gallons. Assuming that the velocity of flow in the delivery pipe is not to exceed 5 feet per second and that the length of the delivery pipe is 380 feet, determine a suitable diameter for the delivery pipe.

Neglecting all losses in the suction pipe and taking the coefficient of resistance of flow in the delivery pipe as 0 008, determine the pump horse power, and estimate the probable indicated horse power of the engine.

- 4. In an outward flow reaction turbine the wheel has an internal radius of $2\frac{1}{4}$ feet and an external radius of $3\frac{1}{4}$ feet and it makes 275 revs. per minute. The wheel is 9 inches wide at the inlet and outlet, and the net areas for radial flow at inlet and outlet are each 0.8 of the gross area. The head of water is 140 feet. Neglecting all frictional losses, determine the angles of the tips of the vanes at inlet and outlet so that the water shall leave radially. The quantity of water supplied is 230 cubic teet per second.
- 5. Three reservoirs A, B, and C are connected by pipes leading from each to a junction box P. The lengths of the pipes AP, BP and CP are 7,000 feet, 3,000 feet, and 5,000 feet and their diameters are 18 inches, 12 inches and 24 inches respectively. The water level at B and C are 500 feet and 300 feet respectively below the water level of A. Calculate the magnitude and indicate the direction of the velocity in each pipe, taking the coefficient of friction in each pipe as 0.01.
- 6. A centrifugal pump has a wheel 28 inches diameter. The vanes of the wheel are radial at exir and it makes 500 revs, per minute. If the radial velocity of the flow is 9 ft. per second and the loss of head in the pump is $\frac{3}{4}$ of the velocity head at the exit from the wheel, find the height to which the pump will deliver water, and the efficiency of the pump.

Four questions only need be attempted from this half.

- 1. (a) Deduce the formula for the discharge of sluices $Q=5A\sqrt{h}$ and state how the formula must be varied if the contraction be suppressed along part of the perimeter of the orifice
- (b) What would be the discharge per minute under a constant head of from-
 - (f) a square orific of 1 sq inch Sectional Area in a thin plate;
 - (ii) a cylindrical a tjutage 1" in diameter and 3" long?
- 2. Prove Barnoulle's theorem and explain the cause of a high discharge through an adjutage by its application.
- 3 (a) Explain the terms 'head of approach.' 'velocity of approach' and state how the expression for discharge through a rectangular notch is modified by the velocity of approach.
- (b) What will be the discharge per minute through a rectangular notch in a thin plate 6' wide with 8" head, velocity of approach being two miles per hour?
- 4. (a) What do you understand by the terms 'Anicut,' Waste Wier,' and 'Regulator?' Explain how these devices are made use of in irrigation works. Give the formula for discharge over a wier (freefall).

(b) A wier has a head of 4' of water on its crest and the tail-water rises 3' above the crest. Find the discharge for each foot run of the wier.

- 5. (a) A tank his a catchment area of 30 sq. miles. What length of wier will it require to carry off with a head of 4' a rainfall of 5" in 24 hours, 60% of
- which reaches the tank?

 (b) A river 300' feet wide with vertical banks 8' deep has a mean velocity of 8' per sec. At what height above an anicut with a clear overfall would the whole be dis harged?
 - 6. (a) Deduce the formula for discharge in open channels.
- (b) A main canal is to have a discharge of 5,000 cusees with a velocity of 2' per sec. and a depth of 5'. The side slopes are 1:1. Find the bottom width of the channel and the slope.
- 7. (a) What do you un lerstand by the term 'catchment basin' of a river? How is it determined? State briefly two independent methods of ascertaining the flood discharge of a river at given point.

(b) The catchment basin of a river above a given point in its course is 200 sq. miles The maximum recorded rainfall at a meteriological station in the vicinity is 6" in 24 hours. Estimate the probable maximum discharge of the river at the given point.

MECHANICAL ENGINEERING

Examiners—{ PROF. J. RIFFKIN MR. N. COOKE, B.Sc.

The questions are of equal value

Attempt THREE questions only from EACH half

FIRST HALF

- 1. The flanges of an I girder are 12 ins. by 1 in. and the web is 24ms. by in. At a particular section the B.M. is 100 tons feet and the 8 F. is 50 tons. Consider a point in the section at the top of the web and calculate the principal stresses. If the elastic limit tensile stress is 14 tons, in. and l'orson's ratio is 03, determine the factor of safety according to each of the three recognised theories of elastic failure.
- 2. A cylinder of 4 ins. internal diameter is to sustain an internal pressure of 2 tons/in.² The cylinder is fitted with plunters which take the end thrust so that the cylinder wall is unstressed longitudinally. If the maximum shear stress is not to exceed 3 tons/in.², find the minimum outside diameter.

Deduce the Lame the equations.

3. Discuss the effect of repeated loading beyond the yield point on a ductile material such as mild steel.

State briefly the effects of time and low heat treatment of the specimen on its elasticity.

4. A cast-iron column, 6 ins. internal diameter, 8 ins. external diameter, and 20 feet long, was inadvertently cast with an eccentric section. the minimum thickness being 0.9 inch. The line of load is along an axis through the centre of the outside circle of the section. If both ends are fixed and the load is 48 tons, find the maximum and minimum stresses produced. $E=8.000 \text{ tons/in.}^2$

SECOND HALF

Attempt THREE questions only.

- 1. A two-plate friction clutch consists of two "Ferodo" disc; 8" outside diameter and 4" inside diameter, engaging with corresponding steel discs on one surface of each. If the coefficient of friction of "Ferodo" on steel is 0.35, determine the spring pressure necessary to transmit 20 H. P. at 2,500 r.p.m. State any assumptions made.
 - 2. The following particulars are taken from a steam engine :-

R.p m.-150.

Length of conn. rod-4'-6".

Length of stroke-24"

Dia. of cylinder-16".

Weight of reciprocating parts-400 lbs.

When the crank is at an angle of 30° from the inner dead centre, the net steam pressure on the piston is 85 lb./in.

Determine. for this position of the crank, the thrust along the connecting rod, the turning moment of the crankshaft, and the rate at which work is being done on the crankshaft.

- 3. The ram of a stone-breaker is driven by a crank and connecting rod mechanism. The stone is crushed as the ram descends to the bottom of the stroke. The lengths of the crank and connecting rod are 8" and 24" respectively. The diameters of the coupling pins are 4", and that of the crankshaft is 5". The speed of the crankshaft is 30 r.p.m., and it is fitted with a heavy flywheele. When the ram is at the bottom of the stroke, the load on the pin joining it to the connecting rod is 15 tons. Calculate the frictional torque on the crankshaft, given that $\mu = 15$ for the pins and journals.
- 4. Given the turning moment diagram of an engine, derive a formula to find the size of flywheel required for any given permissible cyclical variation of speed. A compound steam engine develops 400 I.H.P. at 90 r.p.m., and from the turning moment diagram it is found that in one revolution the fluctuation of energy is 20% of the energy developed. Find the moment of inertia of a flywheel to keep the fluctuation of speed within $\pm 1\%$.

ELECTRICAL ENGINEERING

Examiners— { Prof. B. C. Gupta, F.H.I.E.E. MR. S. W. REDCLIF.

The questions are of equal value.

FIRST HALF

Answer FOUR questions only.

- 1. (i) What are the methods employed for ventilating alternators? (ii) Desbribe with a sketch one type of rotating field for a high speed turbodriven alternator. (iii) What are the advantages and disadvantages of the (a) salient pole type, (b) flush pole type? Where are the different types usually applied?
- 2. (i) A resistance of 5 ohms, an inductive reactance of 6 ohms, and a condensive reactance of 12 ohms are connected in parallel across 120 volts, 60 cycle mains. Find (a) the curret, (b) determine the circuit power factor, (c) determine the power, (d) show the currents vectorially.
- (ii) Give the equation for impedance when the resistance and inductance are in parellel.
- 3. Describe, with sketches, a simple telephone circuit, with 2 magneto telephone instruments, explaining, in their sequence, the different operations that take place, when the two parties wish to converse with one another.
- 4. (i) What do you understand by writing telegraph? Describe with sketches a writing telegraph apparatus. (ii) What is a telegraph relay? Explain fully.
- (iii) What type of battery do you use for an outlying telegraph office? (iv) What is meant by a polarised mechanism? Explain fully its use in telegraphy.
- 5. What is the principle of working of (a) constant current transformer, (b) mercucy are rectifier? Under what circumstances are the two apparatus made to help one another?

Answer FOUR questions only.

1. Make a sketch of a system of lighting conductors for a college building 80 feet high, 160 feet long, and 20 feet wide, and indicate on the sketch the articles used.

Explain, with sketches, a type of suitable "earth" connection and show on the plan where they would be placed.

If you were to test such an installation, what would you pass as satisfactory?

2. Make a hand drawing, roughly to scale, of the section through a 50 B.H.P. 440 volt D.C. motor.

Name the different materials used. How are the bearings lubricated and what means are provided to prevent the oil gaining access to the internal parts of the motor?

3. What is an electric accumulator and how does it differ from a primary cell?

Why is it necessary to describe the capacity of a secondary battery as 'x' ampere hours at 'y' hour rating?

If an accumulator has a capacity of 400 amp. hours at 10 hour rating, what maximum charging current could be applied, and why?

Enumerate the usual defects met with in accumulators and state how they can be avoided or remedied.

- . 4. A 500 volt 10 B.H.P. motor with an efficiency of 87% has to be reduced in speed 25% by means of a resistance in the armature circuit, the torque remaining as before. Find the resistance required.
- 5. A 25 c.p. Tantalum lamp takes 1'8 watts per c.p. and costs Rs. 2. A 25 c.p. carbon lamp takes 4 watts per c.p. and costs annas 8. How long must these lamps burn before the Tantalum lamp becomes the more economical source of light? Electrical energy costs 3.5 annas per unit.

PRINCIPLES OF ARCHITECTURAL DESIGN

FIRST HALF

Examiners = { Mr. P. B. Ghosh, B.Sc., B.E. M. T. Edmondson.

The figures in the margin indicate full marks.

1. Draw the plan, elevation, and section of a Triumphal Arch as was erected by the Romans to an emperor or a general in honour of his victory to a scale of 8 ft. to an inch.

Or.

Draw, to a suitable scale, the plan and front elevation of a Greek temple with four columns in the front portico showing all details in the entablature.

2. Give such sketches and notes as are necessary to show the changes in the principle of construction of vaults as built in the Roman, Romanesque, and Gothic periods.

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B.E. EXAMINATION

Or.

- (a) In planning a building on an open site, state the general rules that should be observed in arranging the various rooms.
- (b) How would you arrive at the working space and size of (i) a class room, (ii) a hostel room, in a High School in Bengal?

SECOND HALF

The figures in the margin indicate full marks.

Design a Garden Pavillion, consisting of a room approx. 15' × 30' in the centre, open on the two long sides with small rooms approx. 15' square at each end suitable for storing garden tools and accessories.

The Greek Ionic Order or the Roman Doric Order should be made use of in the design; the roof may be of the flat concrete type or sloping tile roof type.

The most suitable position for the north point should be indicated on the plan.

The following drawings to a scale of \(\frac{1}{2} = 1'_00'' \) should be attempted by the candidate:—

(1)	F)la	n

(2) Side Elevation.

(3) Cross Section.

Only one half of each drawing need be completed in detail.

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55